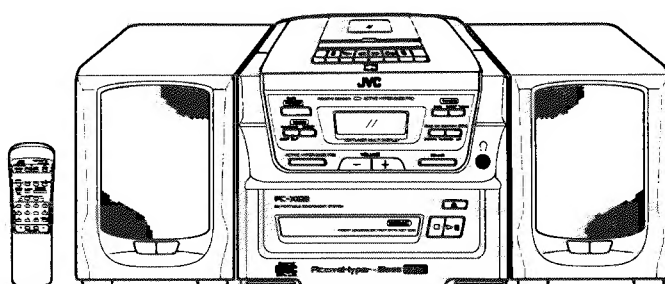


# JVC

## SERVICE MANUAL

### CD PORTABLE COMPONENT SYSTEM

## PC-X103BK E/EN



**COMPACT**  
**disc**  
**DIGITAL AUDIO**

#### Area Suffix

E ..... Continental Europe  
EN ..... Northern Europe

### ■ Self-diagnosis function

This model has a convenient self-diagnosis function for CD section.

## Contents

■ Safety Precautions .....	2	6. Block Diagram .....	50
■ Instructions .....	5	7. Standard Schematic Diagrams .....	58
1. Location of Main Parts .....	25	8. Location of P.C. Board Parts and Parts List .....	62
2. Removal of Main Parts .....	30	9. Exploded View of Enclosure Assembly .....	72
3. Main Adjustment .....	38	10. Exploded View of Mechanism Assembly .....	76
4. Wiring Connection .....	42	11. Packing Illustration and Parts List .....	80
5. Troubleshooting .....	43		

# Safety Precautions

1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety — related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by shading(■) and (⚡) on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps , tubings, barriers and the like to be separated from live parts, high temperature parts, mpving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

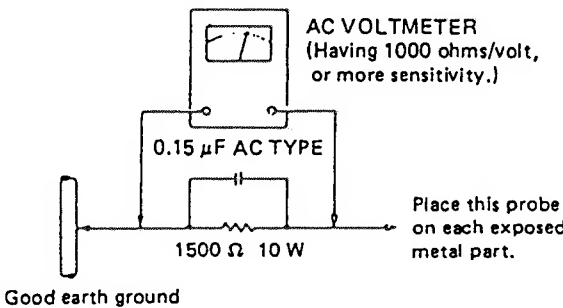
5. Leakage current check (Electrical shock hazard testing)

After re — assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exposeed 0.5mA AC(r.m.s.)

• Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15  $\mu$  F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.).This corresponds to 0.5mA AC(r.m.s.).



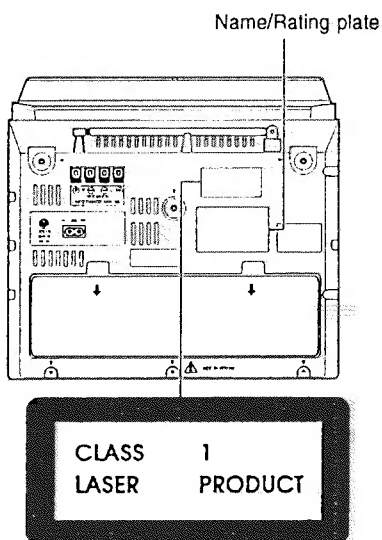
# Warning (UK ONLY)

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintaintaind.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

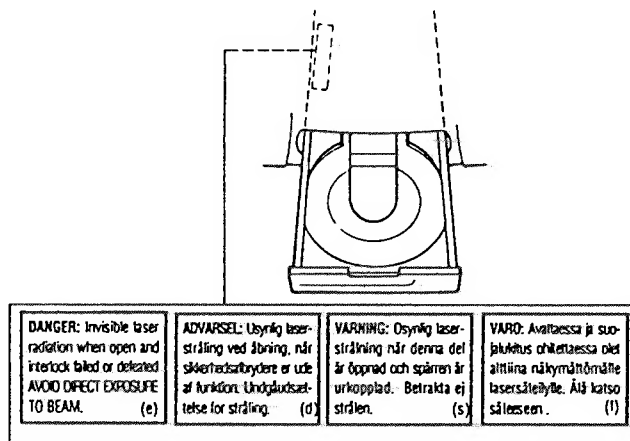
## IMPORTANT FOR LASER PRODUCTS

## PRECAUTIONS

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD tray is open. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.



## REPRODUCTION OF LABELS AND THEIR LOCATION



**ADVERSEL:** Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

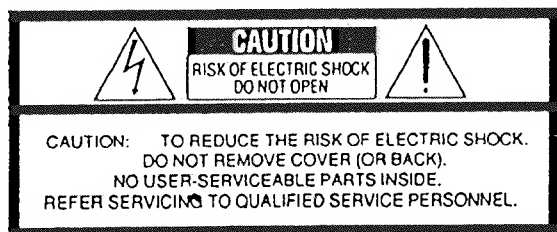
**VAROITUS:** Varmuuskytkimen ollessa pois päältä kun laite avataan, siellä kehittyy näkymättömiä lasersäteitä. Älä pane itseäsi säteilyn alttiiksi.

**WARNING:** Osynlig laserstråling uppstår vid komponentens öppning när säkerhetsbrytaren är frånslagen.

**ADVARSEL:** Usynlig laserstråling ved åbning når sikkerhedsbryteren er ude af funktion. Undgå udsættelse for stråling.

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

■ Important control point concerning safety

1. Check the power transformer marking, and check that the power transformer is securely installed.

Parts number : VTP57J2-12B

2. Check the power cord marking, and check that the power cord is not externally damaged.

Cord mark: < VDE >

Attachment plug: KS-419C or SE-1

Connect plug: KS-15F or SE-4

3. Check the AC socket marking, and check that the AC socket is tightly fixed in the P.C.board when installed.

HSC1466

4. Check that there is sufficient space for the primary and adjacent secondary terminal parts on the P.C.board (There should be no protrusions of solder or terminal wires.)

5. Check the rated fuse display, and check that the fuse is secure in the fuse holder. F992: T2.5A/250V

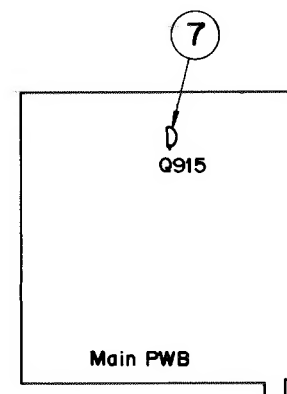
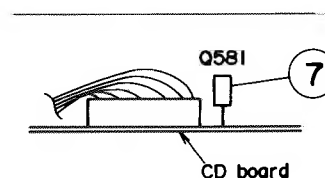
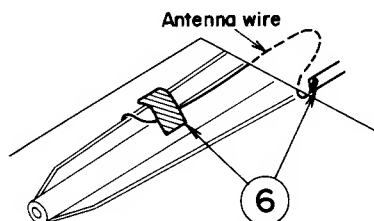
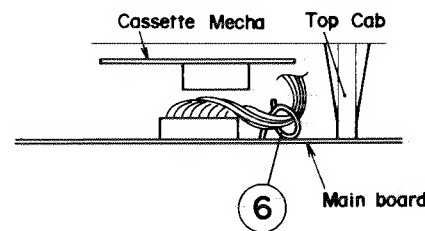
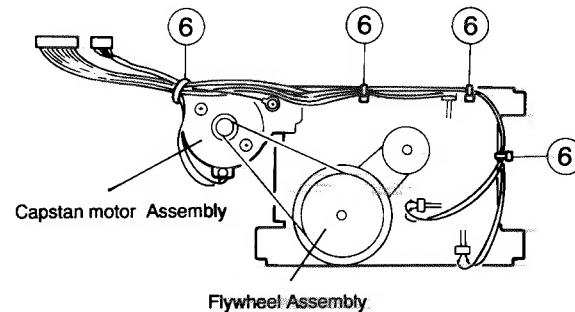
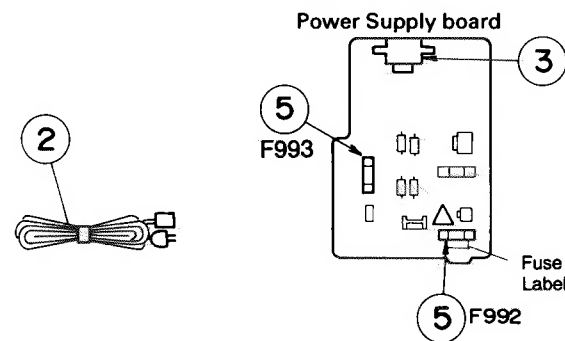
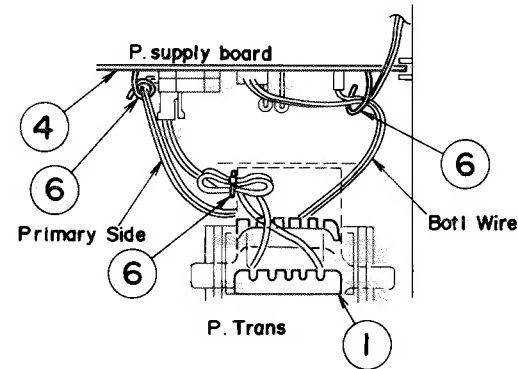
F993: T2.5A/250V

6. Check that the wires are neatly arranged so that they do not interfere with sections involving power, moving parts, heat generation, or those with sharp-edged parts.

7. The following parts are important for safety in such operations as those involved with heat generation. Use the specified parts and check original shape. Heat generating parts should be suspended above the P.C.board not fallen down. Parts marked with   are safety control parts.

IC502, IC304, Q581 , Q915 , Q931, Q901, R929.

8. Confirm the following parts specified in the UL and CSA.: C361 (vending type)



**JVC**

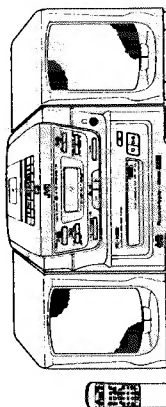
**CD PORTABLE COMPONENT SYSTEM**  
SYSTEMA PORTATIL DE COMPONENTES DE CD  
SYSTEMA DI COMPONENTI PORTATILE A CD

**PC-X106/X103 E**

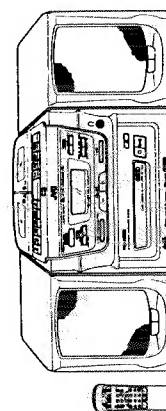
PC-X106/X103E

CD PORTABLE COMPONENT SYSTEM

**COMPACT  
disc**  
DIGITAL AUDIO



PC-X103



PC-X106

**INSTRUCTIONS**

MANUAL DE INSTRUCCIONES  
MANUALE DI ISTRUZIONI

**JVC**  
VICTOR COMPANY OF JAPAN, LIMITED

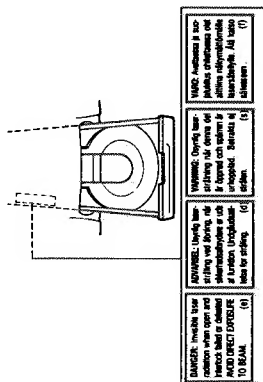
Printed in Malaysia  
VNN7071-251M

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## ENGLISH

Thank you for purchasing this JVC product. Please read these instructions carefully before starting operation to be sure to obtain optimum performance and a longer service life from the unit.

Names of parts and their functions .....	10
Remote control unit .....	12



**WARNING:**  
TO REDUCE THE RISK OF FIRE OR  
ELECTRIC SHOCK, DO NOT EXPOSE  
THIS APPLIANCE TO RAIN OR  
MOISTURE.

- CAUTION "TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL."

4. Double cassette mechanism (Deck A for recording and playback, Deck B for playback) (PC-X103) Singing function.
5. Stand digital 15 FM and 15 AM (MW/LW) preset capability.
  - Seek/manual tuning.
  - Auto preset tuning.
6. Active Hyper-Bass Pro circuit for low-frequency sound reproduction.
7. Timer function.
8. Sleep timer can be set for up to 2 hours.
9. Beat Cut button.

4. Mecanismo de doble cinta (plata A para grabación y reproducción, plata B para reproducción) (PC-X103) Función de canto sincronizado de copista.
5. Mecanismo para un solo cassette (PC-X103) Sintonizador digital de 2 bandas con capacidad para preintonar 30 estaciones (15 de FM y 15 de AM (MW/LW)).
  - Sintonización manual.
  - Sintonización automática preprogramada.
6. Circuito Active Hyper-Bass Pro para reproducción de sonido de bajo frecuencia.
7. Función de temporización.
8. Botón de supresión de batidos.

4. Mecanismo a doble pilastra (Plata A para grabación y reproducción e Plata B para reproducción) (PC-X103) Función de sincronización de canto.
  - Reproducción continuada (della Plastra B alla Plastra A).
5. Sintonizzatore a sintonizzazione digitale a 2 bande con 30 stazioni preintonabili (15 FM e 15 AM (MW/LW)).
  - Sintonia con sintonizzazione automatica.
6. Circuito Active Hyper-Bass Pro per riproduzione del suono di bassa frequenza.
7. Funzione di temporizzazione.
8. Pulsante per la soppressione dei battenti.

When this unit is plugged into an AC outlet, it consumes a small current to operate the remote control and timer, or to back up the memory of the microprocessor, even when the POWER button is set to STANDBY.

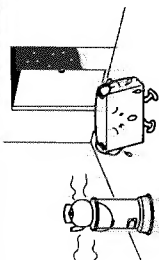
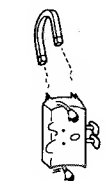
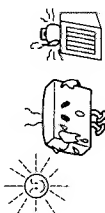
Quando esta unidad está conectada a un tomacorriente de CA, consume una pequeña cantidad de corriente para operar el control remoto y el temporizador, y para la memoria de apoyo del microprocesador, incluso cuando el botón de encendido, POWER, está colocado en STANDBY.

Quando questa unità è collegata ad una presa di corrente CA, consuma una piccola quantità di corrente per il funzionamento del telecomando e del timer o per il mantenimento della memoria del microprocessore, anche quando il tasto POWER è regolato su STANDBY.

## HANDLING PRECAUTIONS

## PRECAUCIONES DE MANIPULACION

## PRECAUZIONI PER L'USO



Do not use this unit in direct sunlight or leave the unit in closed automobiles (or yachts, etc.) where it would be exposed to high temperatures above 40°C.

No utilice esta unidad a la luz directa del sol ni la deje en un automóvil cerrado (yate, etc.) donde podría estar expuesta a temperaturas superiores a 40°C.

Non utilizzare questa unità nella luce solare diretta e non lasciarla in automobili chiuse (o yacht, ecc.) dove può essere esposta a temperature elevate sopra i 40°C.

## PRECAUTIONS FOR LA SICUREZZA

## PRECAUCIONES DE SEGURIDAD

## SAFETY PRECAUTIONS

1. Prevention of electric shocks, fire hazards and damage to the unit. The POWER button is set to STANDBY. A very small current will flow, to save power and for safety when not using the unit for an extended period of time, disconnect the power cord from the household outlet.
2. Do not handle the power cord with wet hands.
3. When unplugging the plug, pull the plug, not the power cord.
4. Consult your nearest dealer when damage, disconnection, or contact failure is found with the cord.
5. Do not bend the cord sharply, or pull or twist the cord.
6. Do not modify the power cord in any manner.
7. Do not remove screws to disassemble the unit and do not touch anything inside the unit.
8. Do not insert any metallic objects into the unit.
9. Unplug the power cord when there is a possibility of lightning.
10. Do not use the unit, unplug the power cord from the outlet and consult your dealer.
11. Do not block the ventilation holes of the unit so that heat can escape.
12. Since the PC-X106/X103 uses a motor-driven CD tray, make sure your hand or other object does not obstruct tray movement.

**Botón de alimentación**  
Cuando se conecta el cable de alimentación a una toma de corriente, fluye una pequeña corriente al indicador de alimentación en rojo, indicando el modo STANDBY (este indicador no se enciende cuando se suministra corriente continua). Cuando se desconecta el cable de alimentación, se pone en verde indicando que la alimentación está conectada (este indicador se enciende con ambas corrientes: alterna y la continua).

**Interruttore di alimentazione**  
Quando il cavo di alimentazione è collegato alla presa di corrente, scorre una piccola corrente sul LED di indicazione di alimentazione. In rosso per indicare il modo STANDBY (questo indicatore non si illumina quando viene fornita alimentazione in c.c.). Quando l'alimentazione viene interrotta, il LED si illumina in verde, indicando che l'alimentazione (qualunque sia) è fornita (questo indicatore si illumina in c.c. che in c.a.).

1. Avoid installing in the following places.
  - Where it could be subject to vibrations.
  - Where it is excessively humid, such as in a bathroom.
  - Where it could be magnetized by a strong magnetic field.
2. Be sure to connect the CD tray so that dust does not collect on the lens.
3. Condensation cases. Condensation may occur in the unit, in which case the unit may not operate correctly.
  - In a room where there is smoke or high humidity.
  - When the unit is moved directly from a cold to a warm room.
4. Volume setting. Compact discs produce very little noise compared with analog records. When the volume control of an amplifier is adjusted down the volume before starting and adjust when the music starts. Therefore, turn down the volume before starting and adjust when the music starts. Therefore, turn down the volume before starting and adjust when the music starts.
5. Safety mechanism. This unit incorporates a safety interlock mechanism which switches the laser beam on and off, so that when the disc tray is closed, the laser beam is switched off. This prevents the laser beam from being exposed when the disc tray is closed.
6. Do not place cassette tapes, etc. near the speakers. Since there are magnets in the speakers, do not place tapes or magnetic cards on the speakers.
7. Keep this unit away from your TV. When this unit is used near a TV, the TV picture could be distorted. If this happens, move this unit away from the TV. If this happens, move this unit away from the TV. If this happens, move this unit away from the TV.

1. Evite instalar en los siguientes lugares.
  - Donde podría estar sometida a vibraciones.
  - Donde haya mucha humedad, tal como en un baño.
  - Donde pueda ser magnetizada por un imán o alto voltaje.
2. Preste atención al polvo. Asegúrese de cerrar el portadisco de CD de modo que el polvo no se acumule sobre la lente.
3. Condensación. En los siguientes casos puede producirse condensación en la unidad, y por eso puede no funcionar correctamente.
  - En una habitación donde se haya encendido un calefactor.
  - En un lugar con humo o muy húmedo.
4. Cuando la unidad haya sido trasladada de un ambiente frío a uno más cálido, o de mayor temperatura a uno más frío, puede producirse condensación. En estos casos, coloque el botón POWER en ON y espere 1 o 2 horas antes de utilizar la unidad.
5. Los discos compactos producen muy poco ruido comparados con los discos analógicos. Cuando se ajusta el control de volumen de un amplificador escuchando música, baje el volumen antes de comenzar a reproducir y luego aumente el volumen cuando comience la música. Por lo tanto, disminúe el volumen antes de poner en marcha la reproducción y luego aumente el volumen cuando comience la reproducción.
6. Mecanismo de seguridad. Esta unidad cuenta con un mecanismo de seguridad que activa o desactiva el haz láser cuando se cierra el compartimiento del portadisco de CD, así se evita que el haz láser sea expuesto cuando se cierra el portadisco de CD.
7. No coloque cassettes, etc. cerca de los altavoces. Los altavoces tienen imanes, así que no coloque cintas o tarjetas magnéticas sobre los mismos porque podrían borrar los datos grabados.
8. Mantenga esta unidad lejos del televisor. Cuando se utiliza esta unidad cerca de un televisor, es posible que se distorsione la imagen televisiva. Si esto ocurre, aleje la unidad del televisor. Si esto ocurre, aleje la unidad del televisor. Si esto ocurre, aleje la unidad del televisor.

1. Evitare l'installazione nei luoghi seguenti.
  - In luoghi dove l'unità può essere soggetta a vibrazioni.
  - In luoghi eccessivamente umidi come in un bagno.
  - In luoghi dove l'unità può essere magnetizzata da un magnete o da un diffusore.
2. Fare attenzione alla polvere. Assicurarsi che il cassetto del CD venga chiuso in modo che la polvere non si accumuli sulla lente.
3. Condensa. Nei casi seguenti si potrebbe formare della condensa sulla lente, impedendo il normale funzionamento dell'unità.
  - In una stanza in cui il riscaldamento è appena stato acceso.
  - In un luogo con fumo o con elevata umidità.
4. Quando l'unità viene spostata direttamente da un ambiente freddo a uno più caldo, o da una stanza fredda ad una calda, può verificarsi la condensa. In questi casi, posizionare il tasto POWER su ON ed attendere 1 o 2 ore prima di utilizzare l'unità.
5. Un CD produce molto poco rumore di fondo a paragone di un disco analogico. Quando si regola il volume di un amplificatore, abbassare il volume prima di cominciare a riprodurre e poi aumentare il volume quando comincerà la musica. Pertanto, diminuire il volume prima di avviare la riproduzione e poi aumentare il volume quando comincerà la riproduzione.
6. Meccanismo di sicurezza. Questa unità incorpora un meccanismo di sicurezza che attiva e disattiva il raggio laser quando si chiude il cassetto del CD. Viene così evitato che il raggio laser venga disperso automaticamente quando si chiude il cassetto del CD.
7. Non tenere l'unità lontana dal televisore. Quando si utilizza questa unità vicino al televisore, è possibile che l'immagine del televisore venga distorta. Se ciò dovesse accadere, allontanare l'unità dal televisore. Se ciò non fosse sufficiente ad eliminare la interferenza, allontanare l'unità dal televisore. Se ciò non fosse sufficiente ad eliminare la interferenza, allontanare l'unità dal televisore.



8. **Cleaning the cabinet**  
If the cabinet gets dirty, wipe it with a soft, dry cloth. Never use benzine or thinner as they damage the cabinet.
9. **When listening with headphones**  
Do not listen at high volumes as it could damage your hearing.  
To the safety, do not drive while listening to the radio.
10. **Carrying handle**  
Do not raise or lower the carrying handle with the telescopic antenna extended, to avoid damaging the antenna. Place the carrying handle in the carrying position so that it does not interfere with operation.

8. **Limpeza de la caja**  
Si se ensucia la caja, límpiela con un paño suave y seco. No utilice bencina ni diluyente, ya que éstos podrían perjudicar al acabado.
9. **Cuando escuche con auriculares**  
No escuche con el volumen muy alto porque podrían dañar sus oídos.  
Por su seguridad, no conduzca mientras escucha con esta unidad.
10. **Manija de transporte**  
No levante ni baje la manija con la antena telescópica extendida para evitar que se dañe. Coloque la manija en la posición de transporte de modo que no interfiera con la operación.

8. **Pulizia dell'esterno dell'unità**  
Se l'esterno dell'unità fosse sporco, strofinare con un panno morbido ed asciutto. Non usare benzina o diluente, in quanto essi possono danneggiare la finitura delle superfici.
9. **Ascolto con le cuffie**  
Abbassare il volume in modo da non danneggiare i suoi orecchi.  
Per motivi di sicurezza, non guidare mentre si ascolta con le cuffie.
10. **Manico per il trasporto**  
Non sollevare o abbassare il manico con l'antenna telescopica estesa, per evitare che si danneggi l'antenna stessa. Posizionare il manico in modo che non interferisca con il funzionamento.

**Note:**  
Connect the speakers separately according to where they are placed, carefully place them for optimal effect within the length of the provided speaker cords. It is recommended that the left and right speaker cords be connected symmetrically in relation to the main unit.

**Note:**  
Connect the speakers separately according to where they are placed, carefully place them for optimal effect within the length of the provided speaker cords. It is recommended that the left and right speaker cords be connected symmetrically in relation to the main unit.

**CONEXIONES** **COLLEGAMENTI**

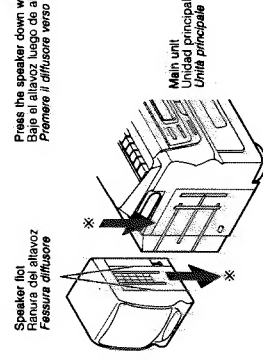
- Do not switch the power on until all connections are completed.
- No conecte la alimentación hasta haber completado todas las conexiones.
- Non attivare l'alimentazione prima del completamento dei collegamenti.

**ATTACHING/DETACHING THE SPEAKERS** **FIJACION/RETIRO DE LOS ALTAVOCES** **APPLICAZIONE/REMOZIONE DEI DIFFUSORI**

**When using the speakers attached to the main unit**  
When using the speakers attached to the bottom of the speaker, against the top of the main unit and press down on the speaker to attach it.

**Cuando utiliza los altavoces colocados en la unidad principal**  
Cuando utiliza los altavoces colocados en la parte superior de la unidad principal y presione el altavoz hacia abajo para colocarlo.

**Quando si utilizza l'unità principale con i diffusori applicati**  
Quando si utilizza i diffusori applicati alla parte superiore dell'unità principale e premere sul diffusore per fissarlo.

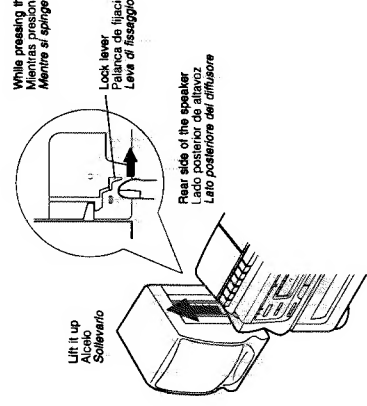


**Press the speaker down with the speaker and main unit aligned.**  
Baje el altavoz luego de alinearlo con la unidad principal.  
Premere il diffusore verso il basso con il diffusore e l'unità principale allineati.

**When using the speakers detached from the main unit**  
While using the lock lever at the rear bottom of speaker in the direction of the arrow, lift the speaker up to detach from the main unit.

**Cuando utiliza los altavoces separados de la unidad principal**  
Mientras presiona la palanca de bloqueo ubicada en la parte trasera de la parte inferior del altavoz en la dirección de la flecha, levante el altavoz para separarlo de la unidad principal.

**Quando si utilizza l'unità principale con i diffusori staccati**  
Mentre si preme la leva di blocco situata sulla parte inferiore del diffusore, e far scorrere il diffusore verso l'alto per staccarlo dall'unità principale.

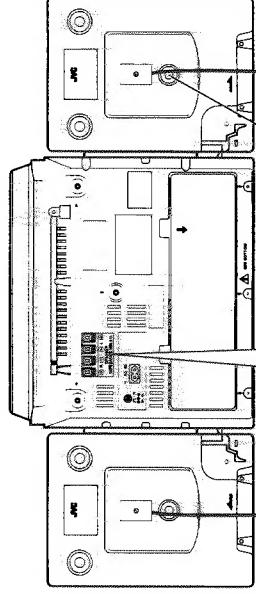


**While pressing the lock lever...**  
Mientras presiona la palanca de fijación ...  
Mentre si spinge la leva di fissaggio ...

**Lock lever**  
Palanca de fijación  
Leva di fissaggio

**Rear side of the speaker**  
Lato posterior del altavoz

**When connecting the speaker cords, connect to the marked terminals first.**  
Cuando conecte los cordones de los altavoces, conecte primero el terminal marcado con una línea al terminal.  
Quando si collegano i cavi dei diffusori, collegare per primo il cavo marcato con una linea al terminale.



**Space for speaker cords**  
Espacio para los cordones de los altavoces  
Spazio per i cavi dei diffusori

**After connecting the speaker cords, bundle any slack into the space for the speaker cords in the rear panel.**  
Después de conectar los cordones de los altavoces, bunde el exceso de los cables en el espacio para los cordones de los altavoces, ubicado en el panel trasero.  
Dopo aver collegato i cavi dei diffusori, mettere la parte libera dei cavi nello spazio apposto sul pannello posteriore.



POWER SUPPLY	ALIMENTAZIONE	ALIMENTAZIONE
<p><b>A. Operation on household AC</b> Connect the AC power cord.</p> <p><b>CAUTIONS:</b></p> <p>ONLY USE WITH JVC POWER CORD PROVIDED WITH THIS UNIT TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT. REVERSE BATTERIES WHEN CHARGING. ALWAYS BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.</p>	<p><b>A. Funcionamiento con corriente alterna</b> • Conexión del cable de corriente alterna.</p> <p><b>PRECAUCIONES:</b></p> <p>1. UTILICE SOLAMENTE EL CABLE DE ALIMENTACIÓN JVC SUMINISTRADO CON ESTE APARATO PARA LAS PILAS CUANDO UTILICE EL CABLE.</p> <p>2. DESENCHUFE EL CABLE DE ALIMENTACIÓN DEL TOMACORRIENTE AL SALIR DEL APARATO POR MUCHO TIEMPO.</p>	<p><b>A. Funzionamento con la rete c.a.</b> • Collegare il cavo di alimentazione c.a.</p> <p><b>PRECAUZIONI:</b></p> <p>1. UTILIZZARE SOLO IL CAVO DI ALIMENTAZIONE JVC IN DOTAZIONE A QUESTA UNITÀ PER UTILIZZARE INSECOURSILLO. RIVOLGERE LE BATTERIE QUANDO SI UTILIZZA IL CAVO DI ALIMENTAZIONE.</p> <p>2. ACCERTARSI DI STACCARRE IL CAVO DI ALIMENTAZIONE DAL TOMACORRIENTE RETE QUANDO SI ESCE O QUANDO SI PREVEDE DI NON UTILIZZARE L'UNITÀ PER UN PERIODO PROLUNGATO.</p>

### B. Funzionamento con batterie

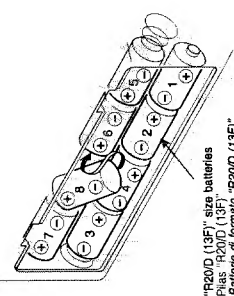
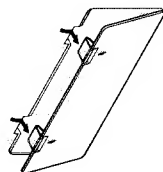
## Inserimento della batteria

1. Aprire il coperchio del vano batterie tirando verso di sé mentre si preme sulle sezioni marcate dalle frecce.
2. Inserire 8 batterie di formato "R20/D (13F)" come indicato in figura.  
\* Fare attenzione ad inserire le batterie con i terminali  $\oplus$  e  $\ominus$  posizionati in modo corretto.
3. Rimettere il coperchio.

### B. Funcionamiento con pilas

**Controlla la tua vita**

- Colocación de las pilas**
1. Abra la tapa del compartimento de las pilas tirándola hacia Vd. mientras presiona las secciones marcadas por las flechas.
  2. Inserte 8 pilas de tamaño "R20D (13F)" como se muestra en el diagrama.
    - Coloque las pilas en el compartimiento posicionando correctamente los terminales  $\oplus$  y  $\ominus$ .
  3. Vuelva a colocar la tapa.



### Verificación de los riles

Cuando disminuya la velocidad de la cinta o el sonido de salida, o cuando la reproducción de un CD sea intermitente, cambie todas las pilas por unas nuevas.

tallas. Para una mejor utilización de los naves

Para una mejor utilización de las pilas, si este aparato se utiliza continuamente, las pilas se gastarán más rápido que si se utiliza de vez en cuando. Si se utiliza en un lugar frío, las pilas se consumirán más rápidamente que si se utiliza en un lugar cálido.

## Controllo delle batterie

Quando la velocità del nastro o il suono in uscita diminuiscono oppure quando la lettura del CD è intermittente, sostituite tutte le batterie con altre nuove.

... Per un migliore utilizzo della batteria qualsiasi problema.

L'uso continuo dell'unità scarica le batterie più velocemente di un uso saltuario. L'uso dell'unità in un luogo freddo scarica le batterie più rapidamente che in un luogo caldo.

**CAUTIONS:**

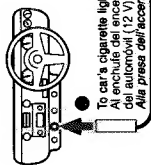
- FOR A LONG TIME (MORE THAN TWO WEEKS) OR WHEN ALWAYS USING HOUSE-  
HOLD CAR, REMOVE THE BATTERIES TO  
AVOID A MALFUNCTION OR DAMAGE  
TO THE UNIT.  
WHEN THE JVC POWER CORD PRO-  
VIDED WITH THIS UNIT IS CONNECTED,  
THE POWER IS AUTOMATICALLY  
SWITCHED FROM THE BATTERIES TO  
THE HOUSEHOLD AC. EVEN WHEN THE  
BATTERIES ARE LOADED, HOWEVER,  
REMOVE THE BATTERIES WHEN  
USING THE POWER CORD.

### CAUTIONS WHEN USING BATTERIES:

**CAUTIONS WHEN USING BATTERIES.**  
When batteries are used incorrectly, it may result in the leakage of chemicals from the batteries or they may explode.  
The following care should be taken:

- Check that the positive (+) and negative (-) terminals of the batteries are positioned correctly and load them as shown in the diagram.
- Do not mix new and old batteries together, or mix different types of batteries.
- Do not try to recharge non-rechargeable batteries.
- Remove the batteries when the unit is not to be used for an extended period of time.
- If chemicals from the batteries come in contact with the unit, clean it off immediately with water. If chemicals leak onto the unit, clean the unit completely.

**C: Operation on car battery (DC 12 V)**

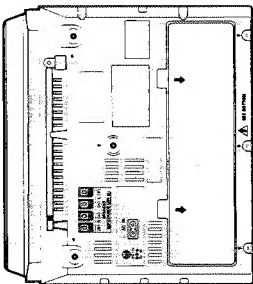


### C. Funcionamiento con batería de au-

tomóvil (12 V de CC)

### C. Funzionamento con la batteria di

una vettura (CC 12 V)



**PRECAUZIONI:**

- CUANDO NO VAYA A UTILIZAR EL APARATO POR MUCHO TIEMPO (MÁS DE DOS SEMANAS) O CUANDO USE SIEMPRE CORRIENTE ALTERNIA, RETIRE LAS PILAS PARA EVITAR FALLAS DE FUNCIONAMIENTO Y DAÑOS. CUANDO SE CONECTA EL CABLE DE ALIMENTACIÓN SUMINISTRADO CON EL APARATO, LA ALIMENTACIÓN SE CONMUTA AUTOMÁTICAMENTE A CORRIENTE ALTERNIA, AUNQUE HAYA PILAS CARGADAS. RETIRE LAS PILAS NO OBTANTE, CUANDO UTILICE EL CABLE DE ALI-

## PRECAUCIONES PARA EL USO DE LAS

**PILAS:** Si se utilizan incorrectamente las pilas, ello puede resultar en fugas de productos químicos de las mismas y pueden explotar. Se deben tomar las siguientes precau-

- Verifique que el polo positivo  $\oplus$  y el negativo  $\ominus$  de las pilas estén correctamente colocados y que las mismas estén instaladas como se muestra en el diagrama.
- No mezcle pilas nuevas y viejas, o diferentes tipos de pilas.
- No intente recargar pilas que no son recargables.
- Extraiga las pilas de la unidad cuando ésta no vaya a ser usada por un largo período.

Si los productos químicos provenientes de las pilas entran en contacto con la piel, lávese inmediatamente con agua. Si los productos químicos entran dentro de la unidad límpiela a fondo.

Journal of Management Education 34(1) 1-12

**BATTERIE:**  
Se le batterie vengono utilizzate in modo scorretto, si possono verificare perdite di sostanze chimiche o esplosioni.

- Controllare che i terminali positivi (+) e negativi (-) delle batterie siano posizionati correttamente ed inserire le batterie come indicato in figura.
  - Non miscelare batterie vecchie e nuove oppure tipi di batterie diversi.
  - Non provare a ricaricare batterie non ricaricabili.
  - Rimuovere le batterie quando si prevede di non utilizzare l'unità per un periodo di tempo prolungato.
- Se le sostanze chimiche delle batterie vanno

gono a contatto con la pelle, lavare immediatamente con acqua. Se le sostanze chimiche si spandono sull'unità, pulirla completamente.

• Elrot connect the car adapter to the DC IN

- When using a car battery, be sure to use the specified car adapter (JVC model CA-R120E) to prevent mishaps or damage resulting from different polarity designs.

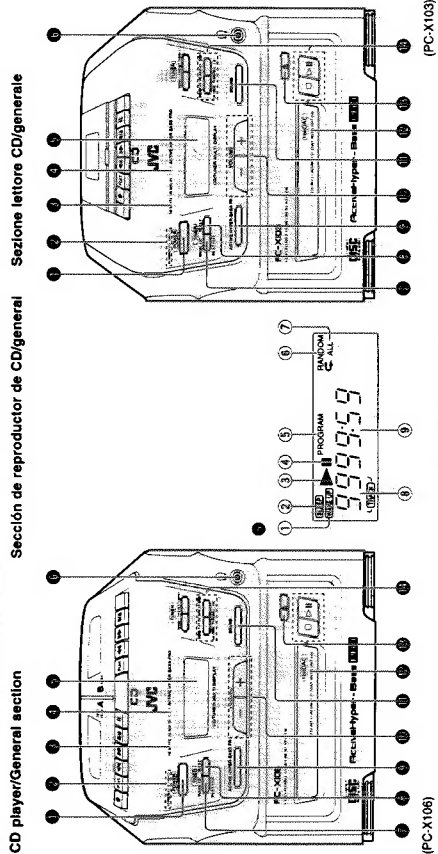
- Primero conecte el adaptador al jack DC

- IN 12V, no al enchufe del encendedor de cigarrillos, porque si pone en cortocircuito una clavija del automóvil, puede quemarse un fusible. Además, tenga cuidado de no producir un cortocircuito entre las clavijas. Cuando utilice una batería de automóvil, emplee el adaptador especificado (JVC modelo CA-1120E) para evitar fallos o daños por diferentes tipos de polaridad.

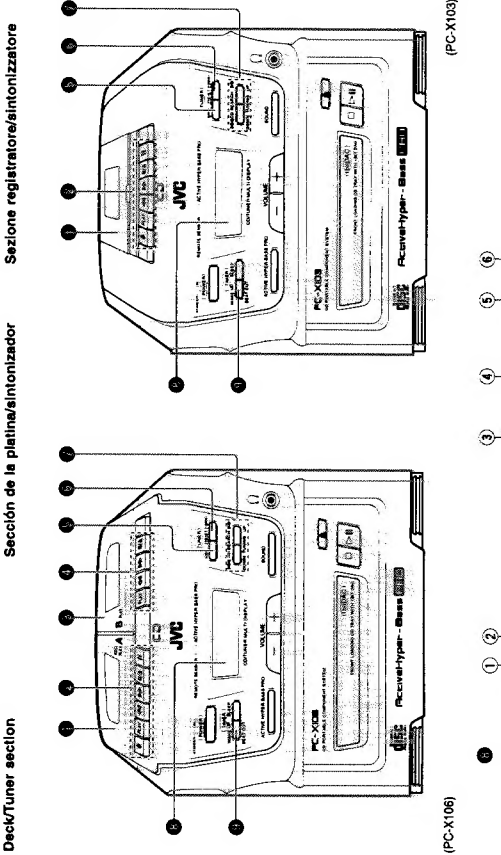
**Collegare prima l'alimentatore alla presa**

- DC IN 12V e non alla presa dell'accendisigari in quanto un cortocircuito nella vettura potrebbe far saltare il fusibile. Inoltre, fare attenzione a non mettere in cortocircuito le prese.
- Quando si utilizza la batteria di una vettura per l'alimentazione, accertarsi di utilizzare l'alimentatore specificato (modello JVC CA-R120E) onde evitare danni derivanti da polarità differenti.

NAMES OF PARTS AND THEIR FUNCTIONS  
NOMBRE DE LAS PARTES Y SUS FUNCIONES  
NOMI E FUNZIONI DELLE PARTI



- CD player/General section  
Sección de reproductor de CD/general  
Sezione lettore CD/generale
1. POWER button  
2. POWER indicators  
3. GREEN: POWER ON (encendido)  
4. RED: STANDBY (espera)  
5. ROTARY: REVERSE/SHUFFLE  
6. ACTIVE HYPER-BASS PRO indicator  
7. Display window  
8. WAKE UP indicator  
9. SLEEP indicator  
10. Playback indicator (▶)  
11. PROGRAM mode indicator  
12. RANDOM playback indicator  
13. Repeat playback indicator (◀ ALL)  
14. Function track number display  
15. Wake up/sleep time display  
16. Headphones jack (1)  
17. Jack de audífonos (1) (mini estereo de 3.5 mm)  
18. Conecte los audífonos (con una impedancia de 16 Ω-1 kΩ) a este jack. Los altavoces se apagarán automáticamente cuando se conecten los audífonos.  
19. Botton SLEEP TIMER  
20. ON: The Active Hyper-Bass Pro indicator will light. Set to this position to listen to Active Hyper-Bass Pro sound.  
21. OFF: The Active Hyper-Bass Pro indicator will not light. Set to this position to listen to normal sound.  
22. ACTIVE HYPER-BASS PRO button  
23. ON: The Active Hyper-Bass Pro indicator will light. Set to this position to listen to Active Hyper-Bass Pro sound.  
24. OFF: The Active Hyper-Bass Pro indicator will not light. Set to this position to listen to normal sound.  
25. VOLUME buttons  
26. Use to increase the volume.  
27. Use to decrease the volume.  
28. SOUND button  
29. Press to change the sound effect.  
30. CD tray open/close button (▲)  
31. CD tray open/close button (▼)  
32. Search button (◀) (◀)  
33. Stop/clear button (□) (□)  
34. Play/pause button (▶) (▶)
1. Tasto di alimentazione (POWER)  
2. Indicatori di alimentazione (POWER)  
3. VERDE: POWER ON (encendido)  
4. ROSSO: STANDBY (in attesa di ascolto)  
5. Selettore: REVERSE/SHUFFLE  
6. Indicatore ACTIVE HYPER-BASS PRO  
7. Finestrino di indicazione  
8. Indicatore WAKE UP  
9. Indicatore SLEEP  
10. Indicatore di riproduzione (▶)  
11. Indicatore di modo PROGRAM  
12. Indicatore di riproduzione RANDOM  
13. Indicatore di riproduzione REPEAT  
14. Indicatore di lettura ripetuta (◀ ALL)  
15. Display di numero di traccia  
16. Display di tempo di lettura  
17. Display di ora per sveglia/spegnimento automatico  
18. Presa per la cuffia (1) (miniasina stereo di 3,5 mm)  
19. Collegare una cuffia (con una impedenza di 16 Ω-1 kΩ) a questa presa. Quando si collega la cuffia, i diffusori vengono automaticamente spenti.  
20. Tasto SLEEP TIMER  
21. ON: L'indicatore Active Hyper-Bass Pro si illumina. Regolare su questa posizione quando si vuole ascoltare il suono Active Hyper-Bass Pro.  
22. OFF: L'indicatore Active Hyper-Bass Pro non si illumina. Regolare su questa posizione quando non si desidera ascoltare il suono Active Hyper-Bass Pro.  
23. Se si preme il tasto Active Hyper-Bass Pro, si illumina l'indicatore Active Hyper-Bass Pro.  
24. Se si preme il tasto Active Hyper-Bass Pro, si illumina l'indicatore Active Hyper-Bass Pro.  
25. Se si preme il tasto Active Hyper-Bass Pro, si illumina l'indicatore Active Hyper-Bass Pro.  
26. Se si preme il tasto Active Hyper-Bass Pro, si illumina l'indicatore Active Hyper-Bass Pro.  
27. Se si preme il tasto Active Hyper-Bass Pro, si illumina l'indicatore Active Hyper-Bass Pro.  
28. Se si preme il tasto Active Hyper-Bass Pro, si illumina l'indicatore Active Hyper-Bass Pro.  
29. Se si preme il tasto Active Hyper-Bass Pro, si illumina l'indicatore Active Hyper-Bass Pro.  
30. Se si preme il tasto Active Hyper-Bass Pro, si illumina l'indicatore Active Hyper-Bass Pro.  
31. Se si preme il tasto Active Hyper-Bass Pro, si illumina l'indicatore Active Hyper-Bass Pro.  
32. Se si preme il tasto Active Hyper-Bass Pro, si illumina l'indicatore Active Hyper-Bass Pro.  
33. Se si preme il tasto Active Hyper-Bass Pro, si illumina l'indicatore Active Hyper-Bass Pro.  
34. Se si preme il tasto Active Hyper-Bass Pro, si illumina l'indicatore Active Hyper-Bass Pro.



- Deck/Tuner section  
Sección de la platina/sintonizador  
Sezione registratore/sintonizzatore
1. Cassette holder (Deck A) (PC-X106)  
2. Botton cassette operation (from left to right)  
3. REC: Press this button to start recording.  
4. PLAY: Press this button to start playback.  
5. REW: Press this button to rewind the tape rapidly.  
6. FFF: Press this button to fast forward the tape rapidly.  
7. STOP/EJECT: Press this button to stop the tape and eject the cassette.  
8. PAUSE: Press this button to pause the tape.  
9. Cassette holder (Deck B) (PC-X106)  
10. Botton cassette operation (from left to right)  
11. REC: Press this button to start recording.  
12. PLAY: Press this button to start playback.  
13. REW: Press this button to rewind the tape rapidly.  
14. FFF: Press this button to fast forward the tape rapidly.  
15. STOP/EJECT: Press this button to stop the tape and eject the cassette.  
16. PAUSE: Press this button to pause the tape.  
17. Portacassette (platina A) (PC-X106)  
18. Botton cassette operation (from left to right)  
19. REC: Press this button to start recording.  
20. PLAY: Press this button to start playback.  
21. REW: Press this button to rewind the tape rapidly.  
22. FFF: Press this button to fast forward the tape rapidly.  
23. STOP/EJECT: Press this button to stop the tape and eject the cassette.  
24. PAUSE: Press this button to pause the tape.  
25. Portacassette (platina B) (PC-X106)  
26. Botton cassette operation (from left to right)  
27. REC: Press this button to start recording.  
28. PLAY: Press this button to start playback.  
29. REW: Press this button to rewind the tape rapidly.  
30. FFF: Press this button to fast forward the tape rapidly.  
31. STOP/EJECT: Press this button to stop the tape and eject the cassette.  
32. PAUSE: Press this button to pause the tape.

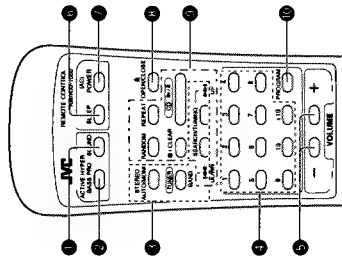


The following operations can be performed using the remote control unit.

- Check the functions of the operation buttons carefully and operate them correctly.

Las siguientes operaciones pueden realizarse utilizando la unidad de control remoto.

- Estudie detenidamente las funciones de los botones de operación y utilícelos correctamente.



- SOUND button
- ACTIVE HYPER-BASS PRO button
- TUNER operation buttons
- TUNER BAND button : To select FM mode
- TUNER BAND button : To select FM mode and (FM/AM).
- TUNING DOWN/UP button : To tune to a broadcast.
- TUNING TRACK button : To select the band (No. 1 to No. 10, +10)
- TUNING PRESET button : To select the band (No. 1 to No. 10, +10)
- TUNING VOLUME button : To select the band (No. 1 to No. 10, +10)
- TUNING SLEEP button : To select the band (No. 1 to No. 10, +10)
- TUNING POWER button : To select the band (No. 1 to No. 10, +10)
- TUNING CD button : To select the band (No. 1 to No. 10, +10)
- TUNING REPEAT button : To select the band (No. 1 to No. 10, +10)
- TUNING CLEAR button : To select the band (No. 1 to No. 10, +10)
- TUNING CD/PAUSE button : To select the band (No. 1 to No. 10, +10)
- TUNING SEARCH button : To select the band (No. 1 to No. 10, +10)
- TUNING PROGRAM button : To select the band (No. 1 to No. 10, +10)

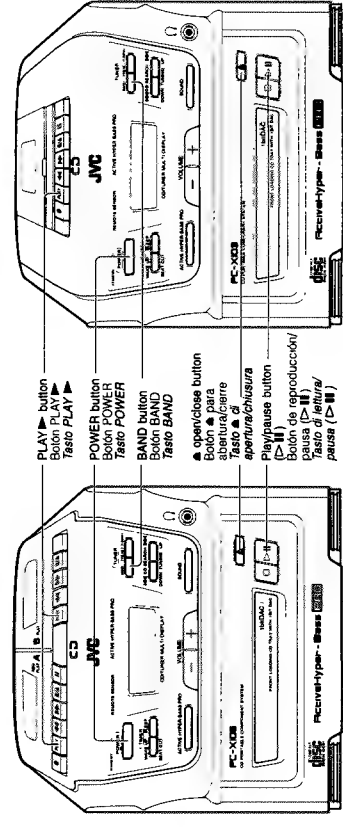
- Botón SOUND
- Botón ACTIVE HYPER-BASS PRO
- Botones de operación de TUNER
- Botón TUNER BAND : Para seleccionar el modo FM
- Botón TUNER BAND : Para seleccionar el modo de sintonización y la banda de sintonización (FM/AM).
- Botón TUNING DOWN/UP : Para sintonizar una estación.
- Botón TUNING TRACK : Para seleccionar la estación (No. 1 a No. 10, +10)
- Botón TUNING PRESET : Para seleccionar la estación (No. 1 a No. 10, +10)
- Botón TUNING VOLUME : Para seleccionar la estación (No. 1 a No. 10, +10)
- Botón TUNING SLEEP : Para seleccionar la estación (No. 1 a No. 10, +10)
- Botón TUNING POWER : Para seleccionar la estación (No. 1 a No. 10, +10)
- Botón TUNING CD : Para seleccionar la estación (No. 1 a No. 10, +10)
- Botón TUNING REPEAT : Para seleccionar la estación (No. 1 a No. 10, +10)
- Botón TUNING CLEAR : Para seleccionar la estación (No. 1 a No. 10, +10)
- Botón TUNING CD/PAUSE : Para seleccionar la estación (No. 1 a No. 10, +10)
- Botón TUNING SEARCH : Para seleccionar la estación (No. 1 a No. 10, +10)
- Botón TUNING PROGRAM : Para seleccionar la estación (No. 1 a No. 10, +10)

Le operazioni seguenti possono essere eseguite utilizzando l'unità di telecomando.

- Controllare con attenzione le funzioni dei vari tasti ed utilizzarli quindi i tasti in modo corretto.

- Tasto SOUND
- Tasto ACTIVE HYPER-BASS PRO
- Tasto TUNER
- Tasto TUNER BAND : Per selezionare il modo FM
- Tasto TUNER BAND : Per selezionare il modo di sintonizzazione e selezione della banda di sintonizzazione (FM/AM).
- Tasto TUNING DOWN/UP : Per sintonizzare una stazione.
- Tasto TUNING TRACK : Per selezionare la stazione (No. 1 a No. 10, +10)
- Tasto TUNING PRESET : Per selezionare la stazione (No. 1 a No. 10, +10)
- Tasto TUNING VOLUME : Per selezionare la stazione (No. 1 a No. 10, +10)
- Tasto TUNING SLEEP : Per selezionare la stazione (No. 1 a No. 10, +10)
- Tasto TUNING POWER : Per selezionare la stazione (No. 1 a No. 10, +10)
- Tasto TUNING CD : Per selezionare la stazione (No. 1 a No. 10, +10)
- Tasto TUNING REPEAT : Per selezionare la stazione (No. 1 a No. 10, +10)
- Tasto TUNING CLEAR : Per selezionare la stazione (No. 1 a No. 10, +10)
- Tasto TUNING CD/PAUSE : Per selezionare la stazione (No. 1 a No. 10, +10)
- Tasto TUNING SEARCH : Per selezionare la stazione (No. 1 a No. 10, +10)
- Tasto TUNING PROGRAM : Per selezionare la stazione (No. 1 a No. 10, +10)

SWITCHING THE POWER ON/OFF CONEXION/DESCONEXION DE LA ALIMENTACION



(PC-X103)

Conexión/Desconexión de la alimentación

- Conexión
- Apagado

The green indicator lights. Se enciende el indicador verde. L'indicatore verde si illumina.

Desconexión

- Apagado

The red indicator lights. (The indicator does not light when DC power is supplied.) Se enciende el indicador rojo. (El indicador no se enciende cuando se suministra CC) L'indicatore rosso si illumina. (L'indicatore non si illumina quando viene utilizzata l'alimentazione c.c.).

Switching the power on/off

- Switching on:







Switching off:

- Apagado



**COMPU PLAY (only when AC power is used)**  
Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source





Function mode Modo di funzionamento	Operations Operazioni
  Deck A or Deck B Piastrina A o Piastrina B	When this button is pressed with a CD loaded, CD playback begins. Quando se presiona este botón habiendo un CD colocado, comienza la reproducción del mismo. Se questo tasto viene premuto con un CD caricato, la lettura del CD ha inizio.
 TAPE	When this button is pressed with a tape loaded, tape playback begins. Quando se presiona este botón habiendo una cinta colocada, comienza la reproducción de la misma. Se questo tasto viene premuto con un nastro caricato, la riproduzione del nastro ha inizio.
 TUNER	When this button is pressed, the tuner is engaged. Cuando se presiona este botón, se activa el sintonizador. Se questo tasto viene premuto, il sintonizzatore si accende.

• When the CD tray open/close (A) button is pressed, the source sound does not switch over, the CD tray can open or close.

When wake up timer is engaged, the power of this unit is not switched on even when the PLAY button of the deck is pressed.

- Notes:**
- When switching off the power, be sure to press the POWER button (M) on the front panel. If the power is not pressed, the CD tray is closed and then the power is switched off.
  - When the CD PLAY button on the remote control has the same function as the PC-X100X103.
  - Position the front panel away from you when carrying this unit to avoid accidentally pressing the POWER button.

**Operación COMPU PLAY (sólo cuando se utiliza CA)**  
Aun cuando la alimentación está en STANDBY, presionando el botón mostrado abajo, conecta la alimentación y selecciona la fuente

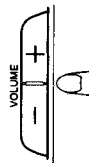
Function mode Modo di funzionamento	Operations Operazioni
  Deck A or Deck B Piastrina A o Piastrina B	When this button is pressed with a CD loaded, CD playback begins. Quando se presiona este botón habiendo un CD colocado, comienza la reproducción del mismo. Se questo tasto viene premuto con un CD caricato, la lettura del CD ha inizio.
 TAPE	When this button is pressed with a tape loaded, tape playback begins. Quando se presiona este botón habiendo una cinta colocada, comienza la reproducción de la misma. Se questo tasto viene premuto con un nastro caricato, la riproduzione del nastro ha inizio.
 TUNER	When this button is pressed, the tuner is engaged. Cuando se presiona este botón, se activa el sintonizador. Se questo tasto viene premuto, il sintonizzatore si accende.

• Cuando se presiona el botón (A) para abrir/cerrar el portadisco de CD, la fuente de sonido no se conmuta, y el portadisco de CD puede salir abierto o cerrado.

Cuando se activa el temporizador después de haberse conectado la alimentación, la unidad no se conecta aun cuando se presione el botón PLAY de la parrilla.

- Notes:**
- Quando si disattiva l'alimentazione, assicurarsi di premere il tasto POWER (M) sul pannello frontale. Se non si preme il tasto POWER, il cassetto del CD si chiude e poi l'alimentazione viene disattivata.
  - Il tasto COMPU PLAY sul telecomando ha la stessa funzione del tasto COMPU PLAY della parrilla anteriore.
  - Collocare il pannello frontale lontano da sé quando si trasporta l'unità, per evitare di premere accidentalmente il tasto POWER.

**VOLUME, TONE AND OTHER CONTROLS**  
**VOLUME buttons**  
+ : Use to increase the volume.  
- : Use to decrease the volume.  
(control range from VOL 0 to VOL 25.)



**ACTIVE HYPER-BASS PRO button**  
ON : The indicator Active Hyper-Bass Pro is lit. Set to this position when listening to Active Hyper-Bass Pro sound.  
OFF : The Active Hyper-Bass Pro indicator goes out. Set to this position when listening to other sound. Active Hyper-Bass Pro sound is not required.



**Sound mode button**  
This unit has three preset sound modes (BEAT, POP, CLEAR). These modes can be selected to enhance the type of music being played.

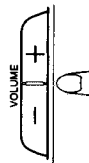
- Press the SOUND button to select the sound mode.
- Each time the SOUND button is pressed, the sound mode changes as follows:



FLAT → BEAT → POP → CLEAR

**Sound mode selection**  
**FLAT (No sound effect (flat characteristics))**  
Set to this position when listening to classical music.  
**BEAT**  
Set to this position for music with a heavy beat, such as rock or disco music.  
**POP**  
Set to this position for light music including popular and vocal music.  
**CLEAR**  
Set to this position for crisp and clear sounding music with transparent highs.

**VOLUME, TONE ED ALTRI CONTROLLI**  
**Testi VOLUME**  
+ : Per aumentare il volume.  
- : Per diminuire il volume.  
(La gamma di controllo va da VOL 0 a VOL 25.)



**Botón ACTIVE HYPER-BASS PRO**  
ON : El indicador Active Hyper-Bass Pro se ilumina. Regule su posición para escuchar el sonido Active Hyper-Bass Pro.  
OFF : El indicador Active Hyper-Bass Pro se apaga. Coloque en esta posición cuando escuche el sonido que no requiere el sonido Active Hyper-Bass Pro.



**Botón de modo de sonido**  
Esta unidad posee tres modos de sonido preajustados (BEAT, POP, CLEAR). Estos modos pueden ser seleccionados para realizar el tipo de música que está siendo reproducida.

- Presione el botón SOUND para seleccionar el modo de sonido.
- Cada vez que se presiona el modo de sonido, este cambia de la siguiente manera:

FLAT → BEAT → POP → CLEAR

**Selección del modo de sonido**  
**FLAT (Sin efectos de sonido; característica plana)**  
Colóquelo en esta posición cuando escucha música clásica.  
**BEAT**  
Colóquelo en esta posición para música con ritmo pesado tal como rock o música de discoteca.  
**POP**  
Colóquelo en esta posición para música leve incluyendo música popular y vocal.  
**CLEAR**  
Colóquelo en esta posición para música con sonido contrastado y nítido, con altos transparentes.

**Selezione del modo audio**  
**FLAT (nessun effetto audio (caratteristica piatta))**  
Regolare su questa posizione per riprodurre musica classica.  
**BEAT**  
Regolare su questa posizione per riprodurre musica molto ritmata, ad esempio rock o musica da discoteca.  
**POP**  
Regolare su questa posizione per riprodurre musica leggera compresa la musica popolare e vocale.  
**CLEAR**  
Regolare su questa posizione per riprodurre musica con un suono nitido e chiaro e con acuti cristallini.

# CONCERNING COMPACT DISCS

## EN CUANTO A DISCOS COMPACTOS

### INFORMAZIONI SUI CD



Since dirty, damaged and warped discs may cause the unit, care should be taken of the following.

#### Usable compact discs

- Use compact discs with the mark shown below.

#### Notes on handling discs

- Do not touch the reflective recorded surface.
- Do not stick anything to or write anything on the disc.
- Do not bend compact discs.

#### Storage

- Before removing a disc from the unit, be sure to put it back in its case.
- Do not expose discs to direct sunlight, high temperatures from a heater, etc., high humidity, or dust.

#### Cleaning discs

- When loading a disc, wipe off any dust, dirt or fingerprints with a soft cloth. Wipe from the center to the edge.

- Never use thinner, benzine, record cleaner or antistatic spray.

Después de que los discos sucios, dañados y con deformación en la unidad, debe tenerse en cuenta los siguientes puntos.

#### Discos compactos utilizables

- Utilice discos compactos con el siguiente símbolo.

#### Notas sobre la manipulación de discos

- No toque la superficie grabada directamente.
- No pegue nada sobre el lado del disco.
- No doble el disco compacto.

#### Almacenamiento

- Guarde los discos en sus cajas luego de sacarlos del reproductor.
- No los exponga a la luz solar directa, altas temperaturas de un calentador, etc., gran humedad o polvo.

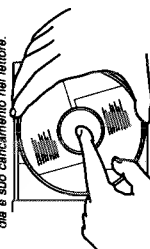
#### Limpieza de discos

- Al cargar un disco, limpie la superficie con un paño suave. Limpie el disco desde el centro hacia el borde.

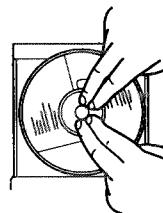
- Nunca utilice diluyente, bencina, limpiadores de discos analógicos o pulverizadores antistáticos.

#### Removing the disc from its storage case and loading it.

- Retire el disco de su caja y colócalo.
- Remozione del CD dalla sua custodia e il suo caricamento nel lettore.

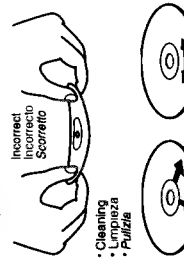


- Press the center and lift out.
- Presione el centro y levántelo.
- Premere il centro e sollevarlo.

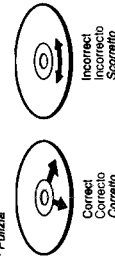


- Press to secure the CD.
- Presionelo para sujetar al CD.
- Premere per fissare il CD.

- Handling
- Manipulación
- Maneggiamento



- Cleaning
- Limpieza
- Pulizia

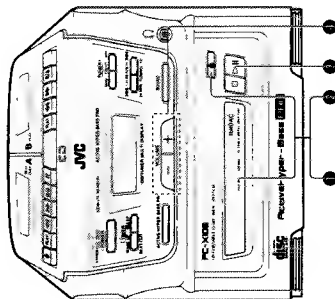


- Correct
- Correcto
- Corretto

# PLAYING COMPACT DISCS

Playing an entire disc ... The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes and 57 seconds.

Operate in the order shown.



(PC-X108)

- Press to open the CD tray. (The power is switched ON.)
- When the power is on, press the POWER button first, then perform operations.
- Load a disc with the label side facing up. (The disc is automatically loaded by pressing the > button.)
- Press to start play.
- Adjust.

- 8-cm compact discs can be used in this unit without an adapter.

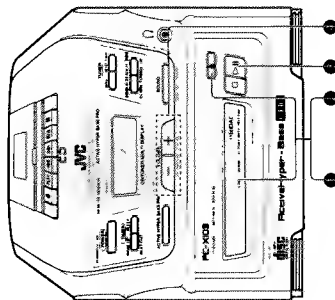
#### Notes:

- When the CD tray is closed by pressing the > button, the CD starts playing as soon as the tray is closed.
- The function switches to CD mode when you use the CD tray open/close button (a). When the CD tray is open, the CD tray open/close button (a) while the disc is playing or recording.
- If the CD tray is open, it automatically closes when you switch function modes.

# REPRODUCCION DE DISCOS COMPACTOS

Reproducción de un disco completo ... El siguiente ejemplo considera un disco compacto con 12 canciones y un tiempo de reproducción total de 48 minutos y 57 segundos.

Proceda en el orden indicado.



(PC-X103)

- Presione para abrir el portadisco de CD. (El motor se conecta (ON) cuando se suministra CA.)
- Cuando se utilizan las pilas, primero presione el botón POWER para luego ejecutar las operaciones.
- Cargue el disco con la etiqueta hacia arriba. Presione para cerrar el portadisco de CD. (El portadisco puede ser cerrado presionando el botón >.)
- Presione para iniciar la reproducción.
- Ajuste.

- Con esta unidad es posible utilizar discos compactos de 8-cm sin necesidad de adaptador.

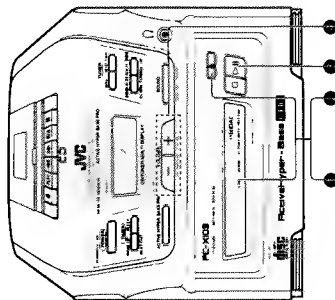
#### Notas:

- Cuando se cierra el portadisco de CD presionando el botón >, la reproducción comienza tan pronto como se cierra el portadisco.
- Al utilizar el botón (a) para apertura/cierre del portadisco de CD la función se cambia al modo de CD. Sin embargo, no se cierra el portadisco de CD automáticamente cuando se presiona el botón de apertura/cierre del portadisco de CD grabando.
- Si el portadisco de CD está abierto, se cierra automáticamente cuando cambia el modo de función.

# LETTURA DI CD

Letture di un intero CD ... L'esempio seguente utilizza un CD con 12 brani ed un tempo di lettura totale di 48 minuti e 57 secondi.

Eseguire le operazioni nell'ordine indicato.



- Premere per aprire il cassetto del CD. (Il motore si collega (ON) quando viene fornita l'alimentazione c.a.)
- Quando si utilizzano le batterie, attivare prima il tasto POWER e quindi eseguire le operazioni.
- Inserire il disco con l'etichetta rivolta in alto. Premere per chiudere il cassetto del CD. (Il cassetto può essere chiuso premendo il tasto >.)
- Premere per avviare la lettura.
- Regolare.

- La lettura di CD da 8 cm non richiede l'uso di alcun adattatore.

#### Note:

- Quando il cassetto del CD viene chiuso premendo il tasto >, la lettura del CD inizia non appena il cassetto si è chiuso.
- Quando si utilizza il tasto (a) per l'apertura/chiusura del cassetto del CD la funzione cambia al modo CD. Tuttavia non si può usare il tasto di apertura/chiusura del cassetto del CD (a) mentre la piastrina sta riproducendo o registrando.
- Se il cassetto del CD è aperto, quando si cambiano i modi di ingresso esso si chiude automaticamente.

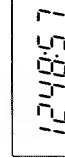
# To stop play

- To stop in the middle of a disc: During playback, press the > button to stop play.



# Per interrompere la lettura

- Per l'interruzione nel mezzo di un CD: Durante la riproduzione premere il tasto > per interrompere la lettura durante la stessa.



- The total number of tracks (tunes) and total playing time are displayed.
- Si visualizza il numero totale di piste (canciones) y el tiempo total de reproducción.
- Viene visualizzato il numero totale dei brani ed il tempo totale di lettura.

- **Tenere premuto il tasto:** la lettura con ricerca inizia lentamente e quindi aumenta gradualmente la velocità di riproduzione. Dopo che il suono può essere udito a basso volume (circa un quarto del livello normale) nel modo di ricerca, ascoltare e rilasciare il tasto quando la posizione desiderata viene raggiunta.

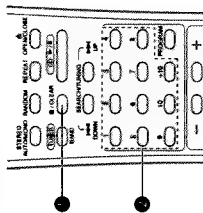
#### Letture ad accesso diretto (con il telecomando)

- La pressione di uno qualsiasi dei tasti numerici del brano avvia la lettura dall'inizio del brano designato senza dover premere il tasto CD ►/►. (Questa funzione non può essere utilizzata durante la lettura programmata).

- Mantenga premuto il botón se iniciará lentamente la reproducción, aumentando gradualmente su velocidad de forma gradual. Después de que el sonido pueda ser oído a bajo volumen (aproximadamente un cuarto del nivel normal) en el modo de búsqueda, cuando localice la posición deseada.

#### Reproducción por acceso directo (utilizando el control remoto)

- Presione cualquier botón de número de pista se iniciará la reproducción desde el comienzo de la canción designada, sin tener que pulsar el botón CD ►/►. (Esta función no puede emplearse durante la reproducción programada.)



- Hold down the button; search play starts slowly and then gradually increases in speed. When you can hear the sound at a low volume (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

#### Direct access playback (using the remote control)

- Pressing any of the track number buttons will start play from the beginning of the designated tune, without your having to press the CD ►/► button. (This function cannot be used during programmed play.)

- Premere il tasto ►/►/CLEAR per impostare il modo CD. (Durante la riproduzione, premere il brano desiderato utilizzando i tasti numerici del brano.)
- Per designare i numeri di brano da 1 a 10, premere il tasto numerico corrispondente al numero del brano. Per designare il numero del brano in numero maggiore, premere il tasto +10 per il numero di volte necessario e quindi un tasto numerico del brano. (Esempio: Per indicare il 20° brano, premere il tasto +10 una volta e quindi il tasto numerico del brano 10.)

- **Tasto +10:** Ogni volta che questo tasto viene premuto, il numero aumenta di 10. Premere questo tasto per designare il numero del brano che si desidera. Premere un tasto numerico del brano per impostare la unità.

- **Per saltare ad un altro brano durante la lettura:** Quando il tasto numerico del brano desiderato viene premuto, il display mostra il numero del brano designato e la lettura inizia da tale brano.

- Presione el botón ►/►/CLEAR para establecer el modo CD. (Durante la reproducción, presione el brano deseado usando los botones de número de pista.)
- Para seleccionar los números de canciones 1 al 10, presione el botón de número de pista correspondiente al número del brano. Para seleccionar el número de canción en número mayor, presione el botón del 11 en adelante, presione el botón +10 el número de veces necesario y luego un botón de número de pista. (Ejemplo: Para indicar el 20° brano, presione el botón +10 una vez, luego presione el botón 10 de número de pista.)

- **Botón +10:** Cada vez que se presiona este botón, el número aumenta en incrementos de 10. Púlselo primero para fijar el dígito de las decenas y luego presione el botón de número de pista para fijar el dígito de las unidades.

- **Para saltar a otra canción durante la reproducción:** Cuando se presiona el botón de número de pista deseado, el indicador muestra el número de pista designado y comienza la reproducción desde el comienzo de la canción seleccionada.

- Press the ►/►/CLEAR button to set to the CD mode. (During reproduction, press the required tune using the track number buttons.)
- To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) number. To designate the tune number in number of times, then press the track number button. (Example: To designate the 20th tune, press the +10 button once, then press the track number button 10.)

- **+10 button:** Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

- **To skip to another tune during play:** When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

- **Interruzione temporanea della lettura:** Premere il tasto ►/► per interrompere temporaneamente la riproduzione. Quando si preme il tasto ►/►, la lettura riprende dal punto in cui era stata interrotta.

#### Note:

- L'indicazione seguente potrebbe apparire sul display quando si preme il tasto ►/► quando il CD viene inserito capovverso. In tali casi, controllare il CD e quindi reinserirlo dopo averlo pulito o capovverso. Quando non si è sicuri del CD nel cassetto, premere il tasto ►/► per controllare la zona "ZONE 1/ZONE 2". Il cassetto del CD si apre quando viene premuto il tasto ►/►.

- Non utilizzare l'unità con temperature eccessivamente elevate o basse. La temperatura ambiente deve essere compresa tra 5°C e 35°C.
- Dopo la lettura, estrarre il CD e chiudere il cassetto del CD.
- Se la lettura del CD fosse scorretta, abbassare il volume e premere il tasto ►/►.
- La lettura del CD potrebbe essere difficile se l'unità viene urtata o se essa viene utilizzata in un luogo soggetto a vibrazioni (ad esempio in automobile su fondi irregolari accidentati).

#### Letture con salto

- Durante la lettura è possibile saltare all'inizio del brano successivo premendo il tasto ►/►. Durante la lettura, premere il tasto ►/► per saltare al brano precedente, la lettura inizia automaticamente quando l'inizio del brano desiderato viene raggiunto.

- **Per ascoltare il brano successivo ...** Premere una volta il tasto ►/► per saltare all'inizio del brano successivo.

- **Per ascoltare il brano precedente ...** Premere il tasto ►/► per saltare all'inizio del brano in corso di lettura e premere nuovamente per saltare all'inizio del brano precedente.

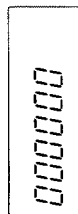
#### Letture con ricerca per localizzare una determinata posizione sul CD

- La posizione desiderata può essere localizzata utilizzando la ricerca rapida in avanti o all'indietro durante la lettura di un CD.

- **Para detener temporalmente un disco:** Presione el botón ►/► para pausar temporalmente la reproducción. Cuando se presiona el botón ►/►, la reproducción comienza en el punto donde fue detenida.

#### Notes:

- La siguiente indicación puede aparecer en el display cuando se presiona el botón ►/► cuando el disco es insertado al revés. En tal caso, verifique el disco e insértele nuevamente después de haberlo limpiado o invertido. Si se presiona el botón ►/► cuando no hay un disco en el cassetto, presione el tasto ►/► para controlar la zona "ZONE 1/ZONE 2". El portadisco de CD se abre cuando viene premido el tasto ►/►.



- No utilice esta unidad en lugares con temperaturas excesivamente altas o bajas. La temperatura ambiente debe estar comprendida entre 5°C y 35°C.
- Después de la reproducción, retire el disco y cierre el portadisco del CD.
- Si ocurriese una falta de seguimiento de la pista durante la reproducción, reduzca el volumen.
- El mal seguimiento puede producirse si la unidad recibe un fuerte golpe o se utiliza en un lugar sometido a vibraciones (por ejemplo en un automóvil que circula por un camino irregular).

#### Reproducción por salto

- Durante la reproducción, es posible saltar al inicio del brano siguiente presionando el tasto ►/►. Durante la reproducción, presione el tasto ►/► para saltar al comienzo de la canción que se está reproduciendo o de la canción previa una vez localizado el comienzo de la canción deseada, la reproducción comienza automáticamente.

- **Para escuchar la próxima canción ...** Presione el botón ►/► una vez para saltar al comienzo de la próxima canción.

- **Para escuchar la canción previa ...** Presione el botón ►/► para saltar al comienzo de la canción que se está reproduciendo y presione nuevamente para saltar al comienzo de la canción previa.

#### Búsqueda por reproducción (para localizar la posición deseada en el disco)

- La posición deseada puede localizarse utilizando la búsqueda progresiva o regresiva rápida durante la reproducción del disco.



Keep pressing for fast-reverse search.  
Mantenga presionado para la búsqueda regresiva rápida.  
Tenere premuto per la ricerca rapida all'indietro.

Keep pressing for fast-forward search.  
Mantenga presionado para la búsqueda progresiva rápida.  
Tenere premuto per la ricerca rapida in avanti.

- **To stop a disc temporarily**  
Press the ►/► button to stop play temporarily. When pressed again, play resumes from the point where it was paused.

#### Notes:

- The following indication may be shown when a disc is dirty or scratched, or when the disc is inserted incorrectly. In such a case, check the disc and insert again after cleaning the disc or turning it over.
- When a CD is not loaded in the tray or when "ZONE 1/ZONE 2" is displayed, the CD tray opens when the ►/► button is pressed.

- Do not use the unit at excessive high or cold temperatures. The recommended ambient temperature range is 5°C to 35°C.
- After playback, unload the disc and close the CD tray.
- If mistaking occurs during play, lower the volume.
- Mistaking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations (i.e. in a car travelling on a rough road).

#### Skip playback

- During playback, it is possible to skip forward to the beginning of the tune being played or the previous tune; when the beginning of the required tune has been located, play starts automatically.

- **To listen to the next tune ...** Press the ►/► button once to skip to the beginning of the next tune.

- **To listen to the previous tune ...** Press the ►/► button once to skip to the beginning of the previous tune.

#### Search playback (to locate the required position on the disc)

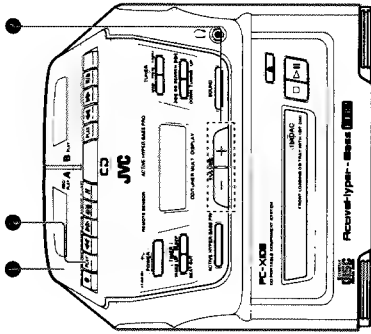
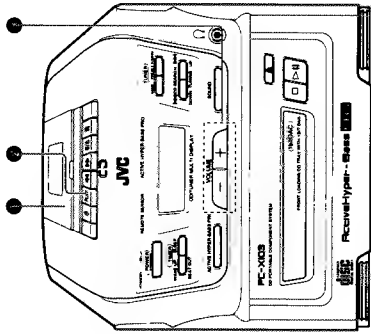
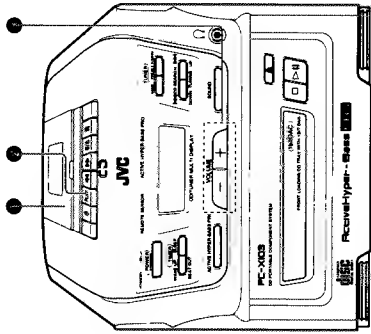
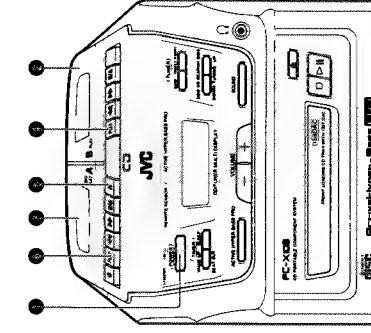
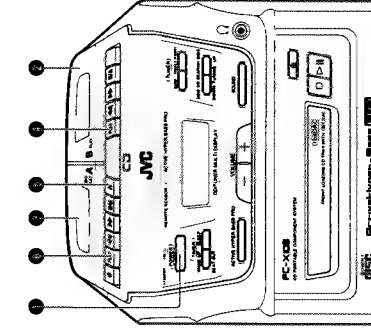
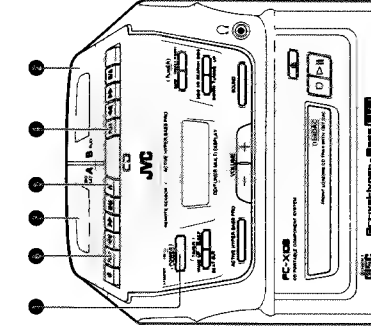
- The required position can be located using fast-forward or reverse search while playing a disc.

Keep pressing for fast-reverse search.  
Mantenga presionado para la búsqueda regresiva rápida.  
Tenere premuto per la ricerca rapida all'indietro.

Keep pressing for fast-forward search.  
Mantenga presionado para la búsqueda progresiva rápida.  
Tenere premuto per la ricerca rapida in avanti.





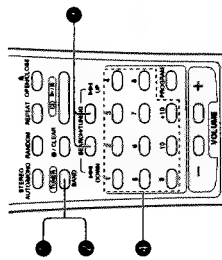
CASSETTE PLAYBACK (PC-X106 ONLY)	REPRODUCCION DE CASSETTES	RIPRODUZIONE DI CASSETTE
Operate in the order shown.	Proceda en el orden indicado.	Eseguire le operazioni nell'ordine indicato.
		
(PC-X106)	(PC-X106)	(PC-X103)
<p>● Load a cassette tape.</p> <p>● Press to start playback. (The power is switched on, TAPE mode is engaged and tape playback starts when the cassette is inserted.)</p> <p>● Adjust.</p> <p>● Playback in Deck B (PC-X106 only). The previous procedures also apply to Deck B. When Deck A and B are simultaneously playing, the sound of the playback sound of Deck B is heard.</p> <p><b>Notes:</b></p> <p>1. When the power is turned off while the tape is running, cassette operation buttons which are depressed do not return to the original positions.</p> <p>2. Avoid operating the <b>FF</b> or <b>REW</b> button on the deck during playback of the other deck. (PC-X106)</p>	<p>● Coloque un cassette de cinta.</p> <p>● Presione para iniciar la reproducción. (Se conecta la alimentación, se activa el modo TAPE y comienza la reproducción de la cinta.)</p> <p>● Ajuste.</p> <p>● Reproducción en la pletina B (PC-X106 exclusivamente). Los procedimientos anteriores también se aplican a la pletina B. Cuando ambas pletinas A y B están simultáneamente ajustadas en el modo de reproducción, sólo se escuchará el sonido proveniente de la B.</p> <p><b>Notes:</b></p> <p>1. Cuando se desconecta la alimentación mientras la cinta está en movimiento, los botones de operación del cassette presionados no regresan a las posiciones originales.</p> <p>2. Evite manipular el botón <b>FF</b> o <b>REW</b> de la pletina durante la reproducción en la otra pletina. (PC-X106)</p>	<p>● Inserire un nastro a cassetta.</p> <p>● Premere il tasto per avviare la riproduzione. (L'alimentazione viene attivata, l'unità entra nel modo TAPE e la riproduzione comincia.)</p> <p>● Quando l'uso delle pletine A e B contemporaneamente, il suono di riproduzione della Pletina B.</p> <p><b>Note:</b></p> <p>1. Quando l'alimentazione viene disattivata durante lo scorrimento del nastro, i tasti di funzionamento premuti non ritornano nella posizione originale.</p> <p>2. Evitare di utilizzare i tasti <b>FF</b> e <b>REW</b> di una pletina durante la riproduzione con l'altra pletina. (PC-X106)</p>
RELAY PLAYBACK (PC-X106 ONLY)	REPRODUCCION ALTERNADA (PC-X106 EXCLUSIVAMENTE)	RIPRODUZIONE CONTINUATA (SOLO PC-X106)
(From Deck B to Deck A) Operate in the order shown.	(De la pletina B a la pletina A) Proceda en el orden mostrado.	(Dalla Pletina B alla Pletina A) Eseguire le operazioni nell'ordine indicato.
		
(PC-X106)	(PC-X106)	(PC-X106)
<p>● Set the POWER button to ON.</p> <p>● Load a cassette.</p> <p>● Press the <b>PLAY</b> button on Deck B.</p> <p>● Press the <b>PLAY</b> button on Deck A.</p> <p>● When Deck B stops, Deck A's pause mode will be released and it will start playback. When Deck A stops automatically, relay playback will be released.</p>	<p>● Ponga el botón POWER en ON.</p> <p>● Coloque un cassette.</p> <p>● Presione el botón <b>PLAY</b> de la pletina B.</p> <p>● Presione el botón <b>PLAY</b> de la pletina A.</p> <p>● Cuando la pletina B se detenga, el modo de pausa de la pletina A quedará desactivado y se iniciará la reproducción. Cuando la pletina A se detenga automáticamente, la reproducción alternada quedará desactivada.</p>	<p>● Posizionare il tasto POWER su ON.</p> <p>● Inserire una cassetta.</p> <p>● Premere il tasto <b>PLAY</b> della Pletina B.</p> <p>● Premere il tasto <b>PLAY</b> della Pletina A.</p> <p>● Quando la riproduzione della Pletina B termina, la Pletina A abbandona il modo di pausa ed inizia la riproduzione. La riproduzione continuata termina quando la riproduzione della Pletina A termina.</p>



### Presetting stations (using the remote control unit)

15 stations in each band (FM and AM) can be preset using the remote control unit.

Example when presetting an FM station broadcasting at 103.5 MHz to preset button "15"



- Press the TUNER/BAND button.
- Select the FM band using the TUNER/BAND button.
- Tune to the required station.
- Press preset button "15" for more than 2 sec. (When "15" blinks in the station display, the station has been preset.)
- Repeat the above procedure for each of the 14 other preset buttons using a different preset button each time.
- Repeat the above procedure for the AM band.

#### To change preset stations

Perform step ② above after tuning to the required station.

#### Notes:

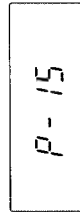
- The previous preset station is erased when a new station is set as the new station's frequency replaces the previous frequency.
- When listening to an AM broadcast, noise may be heard if the remote control is used.

All preset stations will be erased when a power failure occurs for more than 48 hours or the power cord is unplugged for more than 48 hours. In such cases, preset the stations again.

### Presintonización de estaciones (utilizando la unidad de control remoto)

Pueden presintonizarse 15 estaciones en cada banda (FM y AM) del sistema de control remoto.

Ejemplo (cuando presintoniza una radiomóvil de FM difundiendo a 103.5 MHz en el botón de estación presintonizada "15")



- Presione el botón TUNER/BAND.
- Seleccione la banda de FM utilizando el botón TUNER/BAND.
- Sintonice la estación deseada.
- Presione el botón de estación presintonizada "15" durante por lo menos 2 segundos. (Cuando "15" parpadea en la pantalla de la estación presintonizada, la estación ha quedado presintonizada.)
- Repita el procedimiento mencionado para las demás estaciones, utilizando un botón de estación presintonizada diferente cada vez.
- Repita el procedimiento mencionado para la banda de AM.

#### Para cambiar las estaciones presintonizadas

Realice el paso ② mencionado después de sintonizar la estación deseada.

#### Notas:

- Se borrará la estación previa cuando se presintonice una nueva estación ya que la nueva frecuencia reemplaza a la previa en la memoria.
- Al escuchar una radiodifusión de AM, puede oírse ruido si se utiliza el control remoto, es posible que escuche ruido.

Todas las estaciones presintonizadas se borrarán cuando ocurra un corte de alimentación durante más de 48 horas, o cuando se desconecte el cordón de alimentación durante más de 48 horas. En tales casos, presintonice las estaciones otra vez.

### Preset tuning

- The stations must be preset before this operation can be performed.

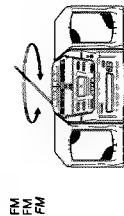
#### (Using the controls of the main unit)

- Press the BAND button.
- Select the band (FM or AM) using the BAND button.
- Press the PRESET TUNING button to select the required preset station.

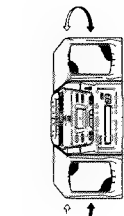
#### (Using the remote control unit)

- Press the TUNER/BAND button (select the FM or AM) using the TUNER/BAND button.
  - Press the required preset station buttons (No. 1-No. 10, +10).
- The preset station number and frequency corresponding to the button pressed are shown.

### Using the antennas



### Uso de las antenas



### Uso delle antenne

### Sintonización de estaciones presintonizadas

- Deberán presintonizarse las estaciones antes de poder realizar esta operación para poder realizar esta operación.

#### (Utilizando los controles de la unidad principal)

- Presione el botón BAND.
- Seleccione la banda (FM o AM) utilizando el botón BAND.
- Presione el botón PRESET TUNING para seleccionar la estación presintonizada deseada.

#### (Utilizando el control remoto)

- Presione el botón TUNER/BAND.
  - Seleccione la banda (FM o AM) utilizando el botón TUNER/BAND.
  - Presione los botones de las estaciones presintonizadas (No. 1-No. 10, +10).
- Se visualizará el número de estación presintonizada y la frecuencia correspondiente al botón presionado.

### Sintonía delle stazioni preselezionate

- Le stazioni devono essere preselezionate prima di poter eseguire questa operazione.

#### (Uso dei comandi dell'unità principale)

- Premere il tasto BAND.
- Selezionare la banda (FM o AM) con il tasto BAND.
- Premere il tasto PRESET TUNING per selezionare la stazione preselezionata desiderata.

#### (Uso del telecomando)

- Premere il tasto TUNER/BAND.
  - Selezionare la banda (FM o AM) utilizzando il tasto TUNER/BAND.
  - Premere il tasto della stazione preselezionata desiderata (No. 1-No. 10, +10).
- Il numero della stazione presintonizzata e la frequenza corrispondenti al tasto premuto vengono visualizzati.

#### Note:

The built-in ferrite core antenna can pick up the broadcast signal from the car's vicinity and thereby disturb AM reception.

#### Note:

L'antenna incorporata con anima in ferrite può captare il segnale radio dalla zona vicina che possono disturbare la ricezione di trasmissioni AM.

### RECORDING

- In recording, the ALC circuit automatically adjusts the recording level to prevent the recording level is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.
- To avoid malfunction, do not perform recording on deck B when recording. (PC-X106)

#### Note:

This unit has recording/playback characteristics suitable for normal tapes. Normal tapes have different characteristics from CrO<sub>2</sub> and metal tapes.

### GRABACION

- Al efectuar una grabación el circuito ALC (control automático de nivel) optimiza automáticamente el nivel de grabación por lo tanto no es necesario ajustar el nivel de grabación.
- Controlare que la lengüeta de protección de la cinta de la casete no se haya roto.
- Para evitar las fallas no efectúe las operaciones en la platina B cuando graba. (PC-X106)

#### Nota:

Esta unidad posee características de grabación/reproducción adecuadas para cintas normales. Las cintas normales presentan diferentes características que las de CrO<sub>2</sub> y las cintas de metal.

### REGISTRAZIONE

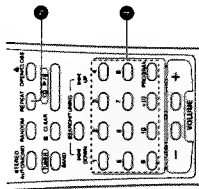
- Durante la registrazione, il circuito ALC ottimizza automaticamente il livello di registrazione, la regolazione del livello di registrazione non è perciò necessaria.
- Controllare che la linguetta di protezione della cassetta non sia rimossa.
- Per evitare inconvenienti, non eseguire operazioni sulla piastra B durante la registrazione. (PC-X106)

#### Nota:

Questa unità possiede caratteristiche di registrazione/riproduzione adatte per nastri normali. I nastri normali possiedono caratteristiche diverse dai nastri CrO<sub>2</sub> e Metal.

**Synchronized recording with the CD player.**  
In this system, the CD player starts playback when the cassette deck enters the recording mode.

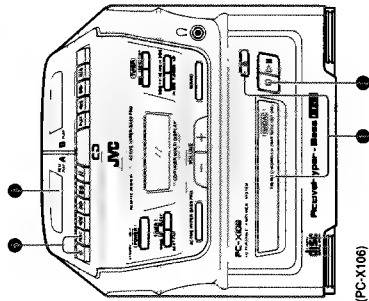
Operate in the order shown.



(PC-X106)

**Grabación sincronizada con el reproductor de CD.**  
En este sistema, el reproductor de CD comenzará la reproducción cuando la pila de grabación se establezca en el modo de grabación.

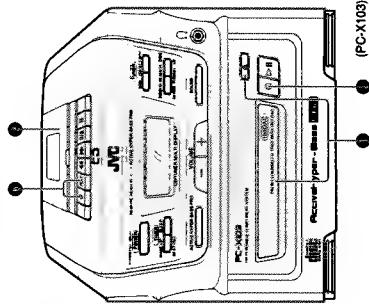
Proceda en el orden indicado.



(PC-X106)

**Registrazione sincronizzata con il lettore CD.**  
In questo sistema, il lettore CD inizia la lettura quando la piastra a cassette entra nel modo di registrazione.

Esegui le operazioni nell'ordine indicato.



(PC-X103)

- Load a disc and close the CD tray.
- Set CD mode.
- Load a cassette in the deck with side A facing up.
- Press the REVERSE button (R) to start recording.
- When programmed playback is required, program the required tunes using the remote control. (See page 22) and the playing time which does not exceed the tape's length.
- Set repeat mode to an appropriate position (REPEAT, REVERSE, or FADER).
- Press the REVERSE button (R) with the PLAY button; synchronized recording will start.
- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- When the tape reaches the end and first, the CD player stops automatically; when the CD player stops first, the tape continues to run. In this case, press the REVERSE button; synchronized recording will stop the tape.

- When automatic spacing between tunes is not required... finishing the previous operation (R) to (R).
- ① Press the REVERSE button (R) to (R).
- ② Press the REVERSE button (R) to (R).

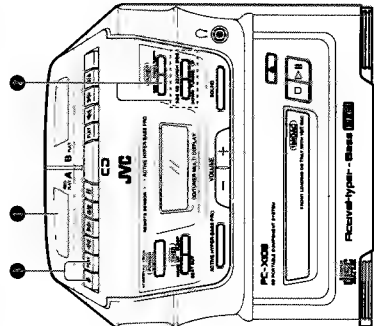
- Insert a CD and close the cassette deck.
- Insert a cassette in the deck with side A facing up.
- Press the REVERSE button (R) to start recording.
- When programmed playback is required, program the required tunes using the remote control. (See page 22) and the playing time which does not exceed the tape's length.
- Set repeat mode to an appropriate position (REPEAT, REVERSE, or FADER).
- Press the REVERSE button (R) with the PLAY button; synchronized recording will start.
- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- When the tape reaches the end and first, the CD player stops automatically; when the CD player stops first, the tape continues to run. In this case, press the REVERSE button; synchronized recording will stop the tape.

- When automatic spacing between tunes is not required... finishing the previous operation (R) to (R).
- ① Press the REVERSE button (R) to (R).
- ② Press the REVERSE button (R) to (R).

**Notes:**  
During CD synchro recording, the REVERSE and SEARCH buttons do not operate.  
During CD synchro recording, do not perform operations on Deck B, because if the tape in Deck B is played back, that sound would also be recorded. (PC-X106 only)

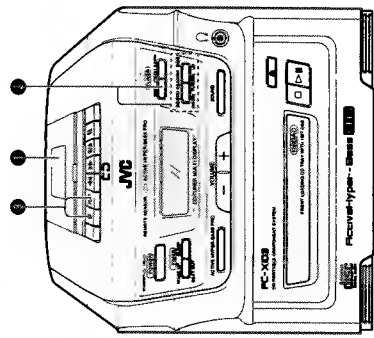
It may be unlawful to record or playback copyrighted material without the consent of the copyright owner.

**Recording from the radio.**  
Operate in the order shown.



(PC-X106)

**Grabación de una radiodifusión.**  
Proceda en el orden indicado.

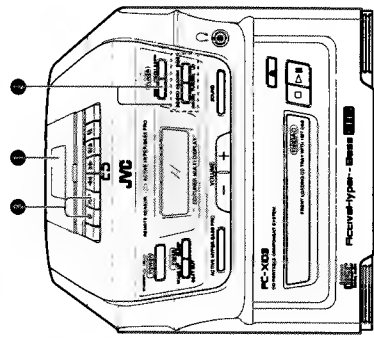


(PC-X106)

**Notes:**  
During the recording synchronized with CD, the REVERSE and SEARCH buttons do not operate.  
During the recording synchronized with CD, do not perform operations on the Deck B, because if the tape in Deck B is played back, that sound would also be recorded. (PC-X106 only)

Es ilegal grabar o reproducir materiales con derechos registrados sin la autorización del propietario.

**Registrazione dalla radio.**  
Esegui le operazioni nell'ordine indicato.



(PC-X103)

- Load a cassette with side A facing up.
- Press the REVERSE button (R) to start recording.
- Press the BAND button. Tune to the required station.
- Press the REVERSE button with the PLAY button.
- To stop recording temporarily, press the PAUSE button. To resume recording, press the PAUSE button again.

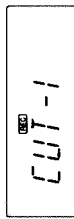
**Note:**  
When recording from the radio, do not perform operations on Deck B, because if the tape in Deck B is played back, that sound would also be recorded. (PC-X106 only)

- Insert a cassette with the side A facing up.
- Press the REVERSE button (R) to start recording.
- Press the BAND button. Tune to the required station.
- Press the REVERSE button with the PLAY button.
- To stop recording temporarily, press the PAUSE button. To resume recording, press the PAUSE button again.

**Note:**  
When recording from the radio, do not perform operations on Deck B, because if the tape in Deck B is played back, that sound would also be recorded. (PC-X106 only)

### BEAT CUT button

When recording an AM broadcast, beats may be produced which are not heard when listening to the broadcast. In such a case, set this button after setting the deck to record mode so that the beats are eliminated. Normally set this switch to "CUT-1".



### Erasing

When recording on a pre-recorded tape, the previous recording is automatically erased and only the new material can be heard when the tape is played.

To erase a tape without making a new recording ...  
Press the **PLAY** button of the deck to set to the **TAPE** mode and press the **REC** and **PAUSE** buttons together after pressing the **STOP/EJECT** button.

### DUBBING (SYNCHRO START DUBBING) (PC-X106 ONLY)

Normal speed dubbing can be done from Deck B to Deck A.

Operate in the order shown.

- Load a cassette. (Refer to the note on page 26.)
- Load a pre-recorded cassette.
- Lightly press the **PLAY** button to set to **TAPE** mode. (The button should not be locked.)
- Press the **PAUSE** button.
- Press the **REC** button with the **PLAY** button. (Record-pause mode.)
- Press the **PLAY** button. (Synchronized dubbing will start.)

(PC-X106)

### Botón de supresión de bellos (BEAT CUT)

Cuando graba un programa de AM, es posible que se produzcan compases que no serán escuchados cuando se escucha un programa. En tal caso, presione este botón después de colocar la cinta en el modo de grabación para eliminar los compases. Normalmente coloque este conmutador en "CUT-1".

### Borrado

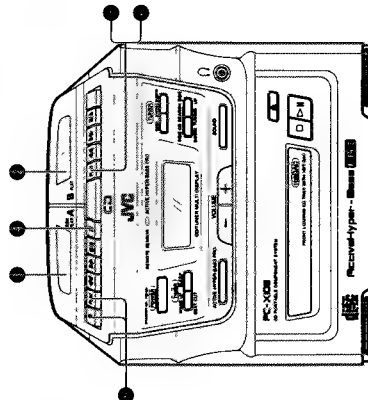
Cuando grabe sobre una cinta pregrabada, la grabación previa se borrará automáticamente y solo podrá escucharse el nuevo material grabado al reproducir la cinta.

Para borrar una cinta sin efectuar una nueva grabación ...  
Presione el botón **PLAY** de la platina para activar el modo **TAPE** y presione conjuntamente los botones **REC** y **PAUSE** después de presionar el botón **STOP/EJECT**.

### COPIA (CON COMIENZO SINCRONIZADO) (PC-X106 EXCLUSIVAMENTE)

La copia a velocidad normal puede ser efectuada desde la platina B a la A.

Proceda en el orden indicado.



- Coloque una cassette. (Relájase a la nota de la página 26.)
- Coloque un cassette pregrabado.
- Presione suavemente el botón **PLAY** para activar el modo **TAPE**. (El botón no debe quedar bloqueado.)
- Presione el botón **PAUSE**.
- Presione el botón **REC** conjuntamente con el botón **PLAY**. (Modo de pausa de grabación.)
- Presione el botón **PLAY**. (Se iniciará la copia sincronizada.)

### Tasto di soppressione dei battimenti (BEAT CUT)

Cuando si registra su un nastro preregistrato, la registrazione precedente viene cancellata automaticamente e solo la nuova registrazione può essere ascoltata quando il nastro viene riprodotto.

### Cancellazione

Cuando si registra su un nastro preregistrato, la registrazione precedente viene cancellata automaticamente e solo la nuova registrazione può essere ascoltata quando il nastro viene riprodotto.

Per cancellare un nastro senza eseguire una nuova registrazione ...  
Premere il tasto **PLAY** della piastra per registrare e premere contemporaneamente i tasti **REC** e **PLAY** dopo aver premuto il tasto **STOP/EJECT**.

### DUPLICAZIONE (DUPLICAZIONE CON AVVIAMENTO SINCRONIZZATO) (SOLO PC-X106)

La duplicazione di nastri a velocità normale può essere eseguita dalla piastra B alla piastra A.

Eseguire le operazioni nell'ordine indicato.

- Inserire una cassette. (Vedere la nota a pag. 26).
- Inserire una cassette preregistrata.
- Premere leggermente il tasto **PLAY** per attivare il modo **TAPE**. (Il tasto non deve essere bloccato.)
- Premere il tasto **PAUSE**.
- Premere il tasto **REC** con il tasto **PLAY**. (Modo di pausa della registrazione.)
- Premere il tasto **PLAY**. (La duplicazione sincronizzata inizia.)

### WAKE UP TIMER OPERATIONS

### OPERACION DEL TEMPORIZADOR DESPERTADOR

### FUNZIONAMENTO DEL TIMER PER LA SVEGLIA

Wake up timer can be set up to 12 hours in advance, starting timer playback of a CD, tape or broadcast at any 30-minute interval within the 12 hours

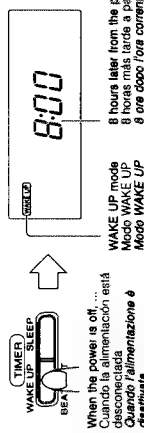
Il timer per la sveglia può essere impostato fino a 12 ore in anticipo, per avviare la riproduzione con il timer di un CD, di una cassetta o di una trasmissione in intervalli di 30 minuti entro le 12 ore.

### How to set the wake up timer

(Example: When the present time is PM 10:00 and you want to set the timer for AM 6:00 next morning (about 8 hours later).)

### Ajuste del temporizador despertador

(Ejemplo: Cuando la hora actual es PM 10:00 y usted desea despertarse a las AM 6:00 de la mañana siguiente (8 horas más tarde aproximadamente).)



- Notes:
- The starting time of timer playback may be within a few minutes margin of error from the actual time.
- If you want to change timer setting you have already made, set it again.
- To cancel engaged wake up timer, switch the power on by pressing the **POWER** button, and the indication "**WAKE UP**" goes out.
- The indication "**WAKE UP**" remains even after the power is switched on via wake up timer. 2 hours later, the power will switch off automatically.
- When automatic power off is not required, press the **POWER** button to switch the power off or press the **SLEEP** button until the sleep time indicator disappears.)

- Notes:
- El tiempo de activación de reproducción por temporizador puede tener unos pocos minutos de margen de error en relación al tiempo establecido.
- Si usted desea cambiar el ajuste del temporizador que está en uso, vuelva a establecerlo.
- Para cancelar el temporizador despertador, encienda el equipo presionando el botón **POWER** y la indicación "**WAKE UP**" se apagará.
- La indicación "**WAKE UP**" permanece en el visor aun después de que la alimentación ha sido encendida. Después de 2 horas, más tarde la alimentación será desconectada. (Cuando la desconexión automática de alimentación no es necesaria, presione el botón **POWER** para desconectar o presione el botón **SLEEP** hasta que la indicación del temporizador de desconexión desaparezca.)

- Notes:
- L'ora di avvio della riproduzione con il timer può avere un margine di errore di alcuni minuti rispetto all'ora stabilita.
- Eseguire nuovamente l'impostazione del timer se si desidera cambiare l'impostazione già eseguita.
- Per cancellare l'impostazione del timer, attivatelo premendo il tasto **POWER** e l'indicazione "**WAKE UP**" scomparirà.
- L'indicazione "**WAKE UP**" rimane anche dopo che l'alimentazione viene attivata per mezzo del tasto **POWER**. Dopo 2 ore, l'alimentazione viene disattivata automaticamente.
- (Quando lo spegnimento automatico non è necessario, premere il tasto **POWER** per attivare l'alimentazione o premere il tasto **SLEEP** fino a far scomparire l'indicatore dello spegnimento automatico.)

# Timer playback

- Timer playback of tapes, broadcasts and CDs is possible.

## Operations

1. Set the POWER button to ON.
2. Select the source sound.

Source sound	Timer mode	Operations
CD play	CD	Load a disc and press the Disc/Play button to set the CD mode.
Tape playback	TAPE	Load a cassette tape.
Radio broadcast	TUNER	Press the BAND button to set the tuner mode and tune to the required frequency.

- Timer playback of a CD is possible in programmed order. (See page 22.)
- 3. Adjust the volume.
- 4. Set the timer.
- 5. Set wake up timer. (When performing the timer playback of tapes, press the PLAY button of the deck.)

- Timer playback will start at wake up time 2 hours later. (The wake up timer mode is then released.)

# Reproducción con temporizador

- Es posible la reproducción de cintas, audición de radioemisiones y CD utilizando el temporizador.

## Operaciones

1. Coloque el botón POWER en ON.
2. Seleccione la fuente.

Fuente	Modo de temporizador	Operaciones
Reproducción de CD	CD	Coloque un disco y presione el botón Disc/Play para establecer el modo CD.
Reproducción de una cinta	TAPE	Coloque un cassette.
Radioemisión	TUNER	Presione el botón BAND para establecer el modo de sintonizador y sintonice la frecuencia deseada.

- Es posible la reproducción de un CD con el temporizador en el orden programado.
- 3. Coloque el volumen.
- 4. Ajuste el volumen.
- 5. Ajuste el temporizador desparrador de un modo que desee. (Presione el botón PLAY de la pñatina.)

- La reproducción por temporizador se iniciará a la hora para despertarse y la alimentación se desconectará 2 horas más tarde. (El modo de temporizador de conexión se desconecta).

# Riproduzione con il timer

- È possibile eseguire la riproduzione con il timer di nastri, trasmissioni e CD.

## Operazioni

1. Posizionare il tasto POWER su ON.
2. Selezionare il suono della sorgente.

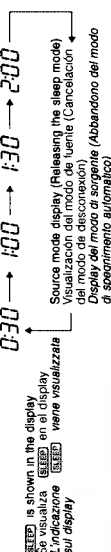
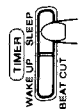
Fonte della sorgente	Modo del timer	Operazioni
Letture di CD	CD	Caricare un CD e premere il tasto Disc/Play per impostare il modo CD.
Riproduzione di nastri	TAPE	Caricare un nastro.
Trasmissione radio	TUNER	Preparare il tasto BAND per impostare il modo del sintonizzatore e sintonizzare la stazione desiderata.

- È possibile eseguire la lettura con il timer di un CD in un ordine programmato. (Vedere pag. 22.)
- 3. Posizionare il volume.
- 4. Posizionare il timer per la sveglia. (Quando si esegue la riproduzione con il timer di un nastro, premere il tasto PLAY della pñatina.)

- La riproduzione con il timer inizia all'ora impostata per la sveglia e l'alimentazione viene quindi disattivata dopo 2 ore. (Il modo del timer per la sveglia viene quindi abbandonato).

# SLEEP TIMER OPERATIONS

- Use this when you want to fall asleep while listening to a tape, broadcast or CD.
- 1. Set the required source and tune (tuner) or radio (radio) to the required frequency (CD or radio).
- 2. Press the SLEEP button to set the sleep time.



- Sleep times of 30, 60, 90, or 120 minutes can be set. When you release the SLEEP button, the source is displayed after 5 sec.
- Sleep times of 30, 60, 90 or 120 minutes. Cuando suelte el botón SLEEP, se mostrará la fuente después de 5 segundos.
- Possoro essere impostati tempi di 30, 60, 90 o 120 minuti per lo spegnimento automatico. Quando si rilascia il tasto SLEEP, la sorgente viene visualizzata per 5 secondi.

# OPERACION DEL TEMPORIZADOR DE DESCONEXION

- Utilice esta función cuando desee dormir escuchando una cinta, radioemisión o un CD.
- 1. Establezca la fuente deseada y sintonice la frecuencia requerida (CD o cinta).
- 2. Presione el botón SLEEP para fijar la hora de desconexión.

- Utilizzare questa funzione per addormentarsi ascoltando un nastro, una trasmissione o un CD.
- 1. Impostare la sorgente desiderata e sintonizzare la frequenza richiesta (CD o cassetta).
- 2. Premere il tasto SLEEP per impostare l'ora di spegnimento.

- The sleep timer operation will start and the power will be switched off after the specified time. (Tuner & CD modes)
- In the tape playback mode, when the timer time expires, the tape will stop and the power will switch off.
- In the tape playback mode, when the timer time expires, the power will switch off at the tape end.

- Checking the sleep time. When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.

- To cancel the sleep timer operation. Press the POWER button to switch the power off or press the SLEEP button until the sleep time indicator disappears.

- Comenzará a funcionar el temporizador de desconexión y se apagará la unidad una vez que haya transcurrido el tiempo especificado. (Modos de sintonizador y CD).
- En el modo de reproducción de cinta, cuando expire el tiempo, se detendrá la reproducción de la cinta, la alimentación se desconectará al fin de la misma.

- Verificación de la hora de desconexión. Cuando se presiona el botón SLEEP, se muestra el tiempo de sueño restante. Si se presiona nuevamente, se fijará un nuevo tiempo de desconexión.

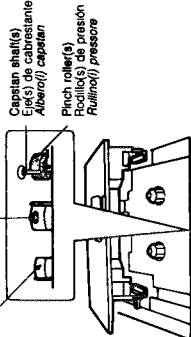
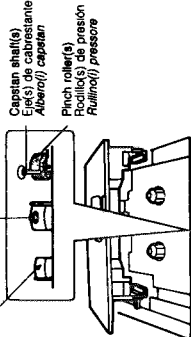
- Para cancelar el temporizador de desconexión. Presione el botón POWER para apagar la unidad o presione el tasto SLEEP hasta que desaparezca la indicación de desconexión.


- Il funzionamento del timer, con spegnimento automatico inizia e l'alimentazione viene disattivata dopo che il tempo specificato è trascorso. (Modi del sintonizzatore e lettore CD).
- Nel modo di riproduzione di nastro, quando il tempo impostato con il timer è più corto del tempo di riproduzione rimanente del nastro, l'alimentazione viene disattivata alla fine del nastro.

- Controllo dell'ora di spegnimento automatico. Quando il tasto SLEEP viene premuto, il tempo rimanente fino allo spegnimento viene visualizzato. Se il tasto viene premuto nuovamente è possibile impostare un nuovo tempo per lo spegnimento automatico.

- Per cancellare il funzionamento con spegnimento automatico. Premere il tasto POWER per spegnere il sistema o premere il tasto SLEEP finché l'indicazione di spegnimento automatico scompare.



MAINTENANCE	MANTENIMIENTO	MANUTENZIONE
<p><b>Cleaning is important!</b> When the tape is running, magnetic powder and dust naturally accumulate on the heads, capstan and pinch roller. When they become too dirty, quality deteriorates.</p> <ul style="list-style-type: none"> <li>• The output sound level drops.</li> <li>• The previous sound is not completely erased.</li> <li>• Recording is not performed satisfactorily.</li> <li>• Record of the tape is not clear, etc.</li> </ul> <p>Be sure to clean the heads, capstan and pinch roller every 10 hours of use, so that perfect recording is possible.</p>	<p><b>La limpieza es importante!</b> Cuando la cinta se mueve, el polvo magnético y la suciedad se acumulan naturalmente en las cabezas, cabrestante y rodillo de presión. Cuando éstos se ensucian demasiado...</p> <ul style="list-style-type: none"> <li>• Deteriora la calidad del sonido.</li> <li>• El sonido previo no se borra completamente.</li> <li>• No se logran grabaciones satisfactorias.</li> <li>• Los datos grabados en las cintas, etc., aparecen poco claros.</li> </ul> <p>Para obtener una grabación perfecta, limpie las cabezas, el rodillo de presión y el cabrestante cada 10 horas de uso.</p>	<p><b>La pulizia è importante!</b> Quando il nastro scorre la polvere magnetica e lo sporco si accumulano su testine, capstan e rullini pressori. Quando essi sono eccessivamente sporchi...</p> <ul style="list-style-type: none"> <li>• Il suono si deteriora.</li> <li>• Il livello del suono in uscita cala.</li> <li>• Il suono registrato in precedenza non viene cancellato completamente.</li> <li>• La registrazione non viene eseguita in modo soddisfacente.</li> </ul> <p>Per modo di ottenere la testina, ecc., ogni 10 ore di utilizzo in modo da poter ottenere registrazioni perfette.</p>
<p><b>Cleaning the heads, capstan and pinch roller</b> Open the cassette holder. Clean the heads, pinch roller and capstan. For cleaning, use a cleaning kit available from an audio store. After cleaning, be sure that the cleaning fluid has dried completely before loading a cassette.</p>	<p><b>Limpieza de cabezas, cabrestante y rodillo de presión</b> Abra el portacasette. Limpie las cabezas, el rodillo de presión y el cabrestante. Para una limpieza efectiva, utilice los kits de limpieza disponibles en cualquier comercio de audio. Después de la limpieza, asegúrese de que el líquido limpiador se haya secado completamente antes de colocar un cassette.</p>	<p><b>Aprire il vano della cassetta.</b> Pulite testine, rullini pressori e capstan. Per pulire in modo efficace, utilizzare un kit di pulizia. Dopo la pulizia, accertarsi che il liquido di pulizia si sia asciugato completamente prima di inserire una cassetta.</p>
<p><b>Erase head</b> Cabeza de borrado testina di cancellazione</p>  <p><b>Capstan (shuttle)</b> Ahorro/capstan</p> <p><b>Pinch roller(s)</b> Rodillo(s) de presión Rullini(s) pressore</p>	<p><b>Record/play head</b> Cabeza de grabación/reproducción testina di registrazione/riproduzione</p>  <p><b>Capstan (shuttle)</b> Ahorro/capstan</p> <p><b>Pinch roller(s)</b> Rodillo(s) de presión Rullini(s) pressore</p>	<p><b>Precautions:</b> 1. Keep magnets and metallic objects away from the head. If the head becomes magnetized, noise will increase and the tape will be damaged. Do not use the head eraser (available from an audio store). When demagnetizing the head, the STANDBY button should be set to STANDBY. 2. Do not use anything other than alcohol for cleaning. Thinner and benzine will damage the rubber pinch roller.</p>
<p><b>Precautions:</b> 1. Keep magnets and metallic objects away from the head. If the head becomes magnetized, noise will increase and the tape will be damaged. Do not use the head eraser (available from an audio store). When demagnetizing the head, the STANDBY button should be set to STANDBY. 2. Do not use anything other than alcohol for cleaning. Thinner and benzine will damage the rubber pinch roller.</p>	<p><b>Precauciones:</b> 1. Mantenga imanes y objetos metálicos lejos de la cabeza. Si se magnetiza la cabeza, aumentará el ruido y se deteriorará el tono. No utilice el borrador de cabezas (disponible en cualquier comercio de audio). (Cuando desmagnetice la cabeza, asegúrese que el botón POWER/STANDBY esté en posición de STANDBY). 2. Utilice únicamente alcohol para la limpieza. Disolvente y bencina dañarán la goma del rullini de presión.</p>	<p><b>Precauzioni:</b> 1. Tenere magneti ed oggetti metallici lontani dalla testina. Se la testina si magnetizza, i disturbi aumentano e il tono si deteriora. Non usare il cancellatore di testine (disponibile presso un negozio per apparecchi audio). (Quando si smagnetizza la testina, impostare il tasto POWER/STANDBY su STANDBY). 2. Pulire la testina di cancellazione di questo apparecchio è del tipo magnetico, non smagnetizzarla. 3. Utilizzare solo alcool per la pulizia. Diluente e benzina danneggiano la gomma dei rullini pressori.</p>

TROUBLESHOOTING	DETECCION DE PROBLEMAS	GUIDA ALLA SOLUZIONE DEI PROBLEMI
<p><b>What appears to be trouble is not always as big a deal. Ask yourself first...</b></p> <ol style="list-style-type: none"> <li>1. Power cannot be turned on.</li> <li>2. No sound from the speakers.</li> <li>3. The CD player does not play.</li> <li>4. A certain portion of the disc does not play.</li> <li>5. The disc is scratched.</li> <li>6. Playback sound is at a very low level.</li> <li>7. The REC button does not function.</li> <li>8. The head of the cassette is broken.</li> <li>9. The cassette is noisy.</li> <li>10. The timer does not start.</li> <li>11. The timer mode is not displayed.</li> <li>12. Remote control is impossible.</li> <li>13. The REMOTE SENSOR section is exposed to bright light (direct sunlight, etc.).</li> </ol>	<p><b>Aquello que parece ser una falla no siempre es algo serio. Pregúntese primero....</b></p> <ol style="list-style-type: none"> <li>1. No se puede encender la unidad.</li> <li>2. No sale sonido por los altavoces.</li> <li>3. El reproductor no funciona.</li> <li>4. ¿Está el disco rayado?</li> <li>5. ¿Está el disco invertido?</li> <li>6. ¿Está la cabeza sucia?</li> <li>7. ¿Se han extruido las lengüetas de seguridad del cassette?</li> <li>8. ¿Está el disco rayado?</li> <li>9. ¿Está el nivel del sonido muy bajo?</li> <li>10. ¿Está la cabeza sucia?</li> <li>11. ¿Se han extruido las lengüetas de seguridad del cassette?</li> <li>12. ¿Está el nivel del sonido muy bajo?</li> <li>13. ¿Está expuesta la sección REMOTE SENSOR a luz solar, etc.?</li> </ol>	<p><b>Quanto appare essere un problema, molto spesso non è nulla di serio. Controllare per prima cosa quanto segue....</b></p> <ol style="list-style-type: none"> <li>1. L'alimentazione non può essere attivata.</li> <li>2. Il cavo di alimentazione è staccato?</li> <li>3. L'unità non emette alcun suono.</li> <li>4. La cuffia sono collegate?</li> <li>5. Sezione lettore CD</li> <li>6. Il CD è sporco?</li> <li>7. Il CD è invertito?</li> <li>8. Un'eventuale linguetta di protezione della registrazione del CD non viene letta correttamente.</li> <li>9. Il CD è graffiato?</li> <li>10. Sezione piastra a cassette</li> <li>11. Il livello del suono riprodotto è molto basso.</li> <li>12. La testina è sporca?</li> <li>13. Il tasto REC non funziona.</li> <li>14. Le linguette di protezione della registrazione della cassetta sono state rimosse?</li> <li>15. Sezione sintonizzatore</li> <li>16. La ricezione è disturbata.</li> <li>17. Provare ad orientare l'antenna.</li> <li>18. Sezione timer</li> <li>19. Il funzionamento con il timer non si avvia.</li> <li>20. Il modo (  ) del timer per la sveglia viene visualizzato?</li> <li>21. Telecomando</li> <li>22. Il funzionamento con il telecomando è impossibile.</li> <li>23. Le batterie del telecomando sono scariche?</li> <li>24. La sezione REMOTE SENSOR è esposta a luce solare diretta (luce solare diretta, ecc.).</li> </ol>

<p><b>Note:</b> Before making an important recording, be sure to check the operation of the head, the deck, etc. is working correctly.</p>	<p><b>Note:</b> Antes de efectuar una grabación importante, realice una grabación de prueba para verificar que la testina, etc., funciona correctamente.</p>	<p><b>Note:</b> Prima di eseguire registrazioni importanti, accertarsi che l'operazione della testina, ecc., per essere certi che il funzionamento della piastra, ecc., sia corretto.</p>
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SPECIFICATIONS		ESPECIFICACIONES		DATI TECNICI	
<b>Compact disc player section</b>		<b>Sección del reproductor de disco compacto</b>		<b>Sezione lettore CD</b>	
Type	Compact disc player	Type	Reproductor de disco compacto	Type	Lettore di dischi compacti
Signal detection	Non-contact optical pickup	System de detec-	Capteur optique sin	Revelazione segnale	Fotorecettore ottico
Number of channels	2 channels	Numero de canales	2 canales	Numero canal	2 canali
Frequency range	20 Hz - 20,000 Hz	Respuesta de frecuencia	20 Hz - 20,000 Hz	Gamma frequenza	20 Hz - 20,000 Hz
Signal-to-noise ratio	90 dB	Relación señal/ruido	90 dB	Rapporto segnale/rumore	90 dB
Wow & flutter	Less than measurable limit	Loro y remolación	inferior al límite medible	Wow & flutter	Meno del limite misurabile
<b>Radio section</b>		<b>Sección de la radio</b>		<b>Sezione radio</b>	
Frequency ranges	FM: 87.5 - 108 MHz MW: 530 - 1,600 kHz LW: 144 - 288 kHz	Gamas de frecuencia	FM: 87.5 - 108 MHz MW: 530 - 1,600 kHz LW: 144 - 288 kHz	Gamma frequenza	FM: 87.5 - 108 MHz MW: 530 - 1,600 kHz LW: 144 - 288 kHz
Antennas	Telescopic antenna for FM Fertile core antenna for AM and LW	Antena	Antena telescópica para FM Antena para núcleo fértil para AM y OL	Anenne	Antenna telescopica per FM Antenna con anima in ferrite per AM e LW
<b>Track deck section</b>		<b>Sección de la pletina de cassette</b>		<b>Sistema pletina a cassette</b>	
Track system	4-track 2-channel stereo	Systema de pista	4 pistas, 2 canales estéreo	Motor	Motor a c.c. controlado electrónicamente por el capitan
Motor	Electronic governor (PC-X103)	Motor	Motor de CC regulado electrónicamente para cabestrante	Testine	Pletina A: Testina in permalloy duro para reproducción Pletina B: Testina in permalloy duro para cancelación
Heads	Deck A: Hard permalloy head for recording/playback, recording head for erasure Deck B: Hard permalloy head for playback (PC-X103) Magnetic head for recording/playback, Magnetic head for erasure Frequency response: 63 - 25,000 Hz Time constant: 100 μs Fast wind time: Approx. 120 sec (C-60 cassette)	Cabezas	Cabeza magnética para borrado Pletina A: Cabeza de permalloy duro para reproducción Pletina B: Cabeza de permalloy duro para cancelación Cabeza magnética para borrado 63 - 25,000 Hz 0.15% (WRMS) Approx. 120 seg (Cassette C-60)	Respuesta in frecuencia Constante de tiempo de bobinado rápido	Testina magnética per cancellazione Pletina A: Testina in permalloy duro per registrazione Pletina B: Testina in permalloy duro per cancellazione Testina magnetica per cancellazione 0.15% (WRMS) Circa 120 secondi (cassetta C-60)
<b>General</b>		<b>Generalidades</b>		<b>Generali</b>	
Power output	Max. 15.4 W (7.7 W + 7.7 W) at 3 Ω (10% THD) Response (matching impedance) 16 Ω - 1 kΩ AC 230 V, 50 Hz Cassette C-60 Est. DC 12 V (car battery via optional CA-R120E car adapter) 4 W (with POWER button STANDBY)	Potencia de salida	Max. 15.4 W (7.7 W + 7.7 W) a 3 Ω (10% de distorsión armónica total) Respuesta (impedancia de adaptación) 16 Ω - 1 kΩ CA 230 V, 50 Hz CC 12 V (pila "R20/D (13F)" x 6) 12 V CC exterior (batería de auto con adaptador para automóvil opcional CA-R120E) 4 W (con el botón POWER en STAND-BY)	Potenza di uscita	Max. 15.4 W (7.7 W + 7.7 W) a 3 Ω (distorsione armonica totale del 10%) Cuffia (impedenza di adattamento 16 Ω - 1 kΩ) C.c. 12 V (batteria "R20/D (13F)" x 6) C.c. esterna 12 V (batteria d'auto con adattatore per auto CA-R120E) 14 W (con tasto POWER su ON) 4 W (con tasto POWER su STAND-BY)
Output jacks		Jacks de salida		Prese di uscita	
Power supply		Alimentación		Alimentazione	
Power consumption		Consumo		Consumo	
Dimensions		Dimensiones		Dimensioni	

Weight	(PC-X103) Approx. 8.0 kg Approx. 7.2 kg without batteries (PC-X103) Approx. 7.7 kg with batteries Approx. 6.9 kg without batteries Accessories provided : AC power cord x 1 Antenna x 1 "RM-RXP1080" unit "RM/AA (15F)" batteries x 2 (for the remote control)	Peso	(PC-X103) 8.0 kg aprox con baterías 7.2 kg aprox sin pilas (PC-X103) 7.7 kg aprox con pilas 6.9 kg aprox sin pilas Cable de corriente suministrado Antena x 1 Unidad de control remoto (RM RXP1080) x 1 Pilas "RM/AA (15F)" x 2 (para el controlador remoto)	Peso	(PC-X103) 8.0 kg con batterie Circa 7.2 kg senza batterie (PC-X103) 7.7 kg con batterie Circa 6.9 kg senza batterie Cavo di alimentazione fornito Antenna x 1 Unità telecomando (RM-RXP1080) x 1 Batterie "RM/AA (15F)" x 2 (per telecomando)
Speaker Section (each unit)	Speaker Impedance : 3 Ω Dimensions : 140 (L) x 242 (H) x 212 (P) mm Weight : Approx. 1.35 kg Design and specifications are subject to change without notice.	Sección de altavoces (cada unidad)	Altavoz Impedancia : 3 Ω Dimensiones : 140 (L) x 242 (Alt) x 212 (P) mm Peso : Aprox. 1.35 kg Diseño y especificaciones sujetos a cambios sin aviso	Sezione diffusori (ciascuna unità)	Altoparlante Impedenza : 3 Ω Dimensioni : 140 (L) x 242 (Al) x 212 (P) mm Peso : Circa 1.35kg Disegno e dati tecnici soggetti a modifiche senza preavviso

# 1 Location of Main Parts

## ■ Front cabinet inside

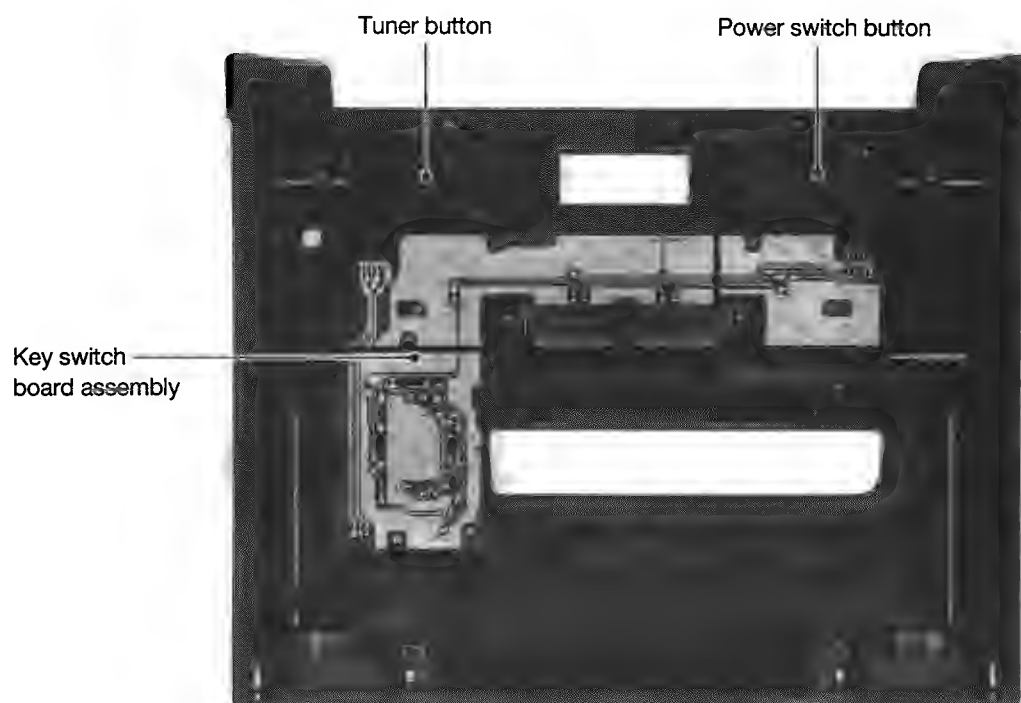


Fig. 1 - 1

## ■ Rear cabinet front view

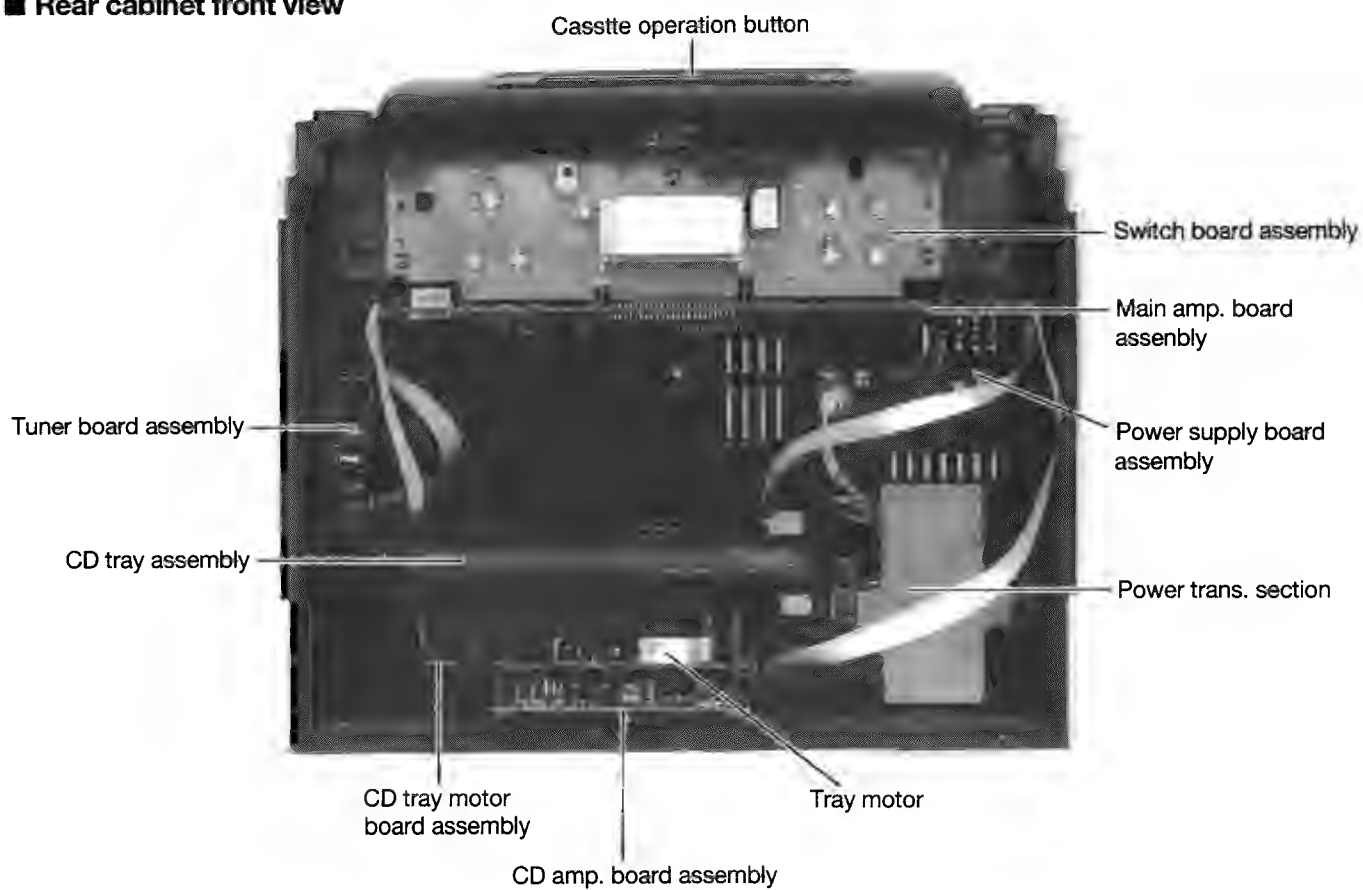


Fig. 1 - 2

■ CD unit (Top side)

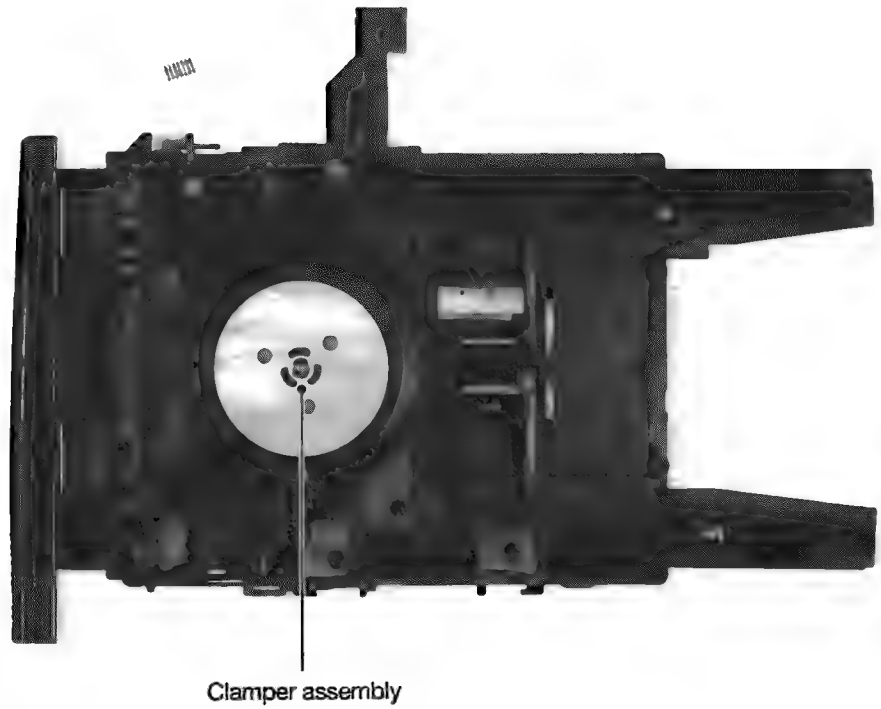


Fig. 1 - 3

■ CD unit (Bottom side)

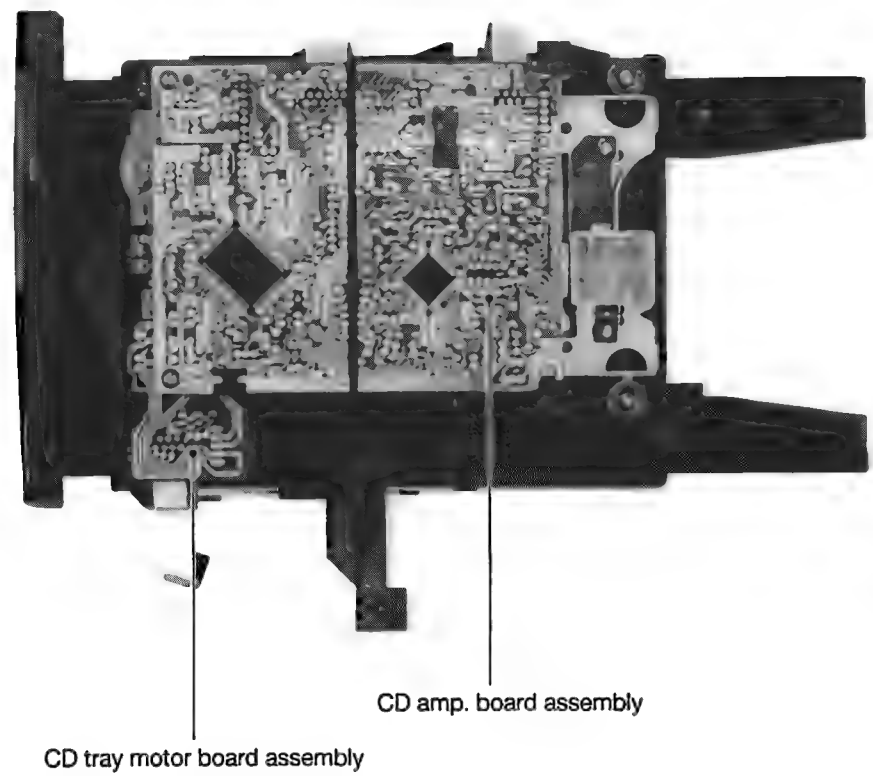


Fig. 1 - 4

■ Top cabinet unit (Top side)

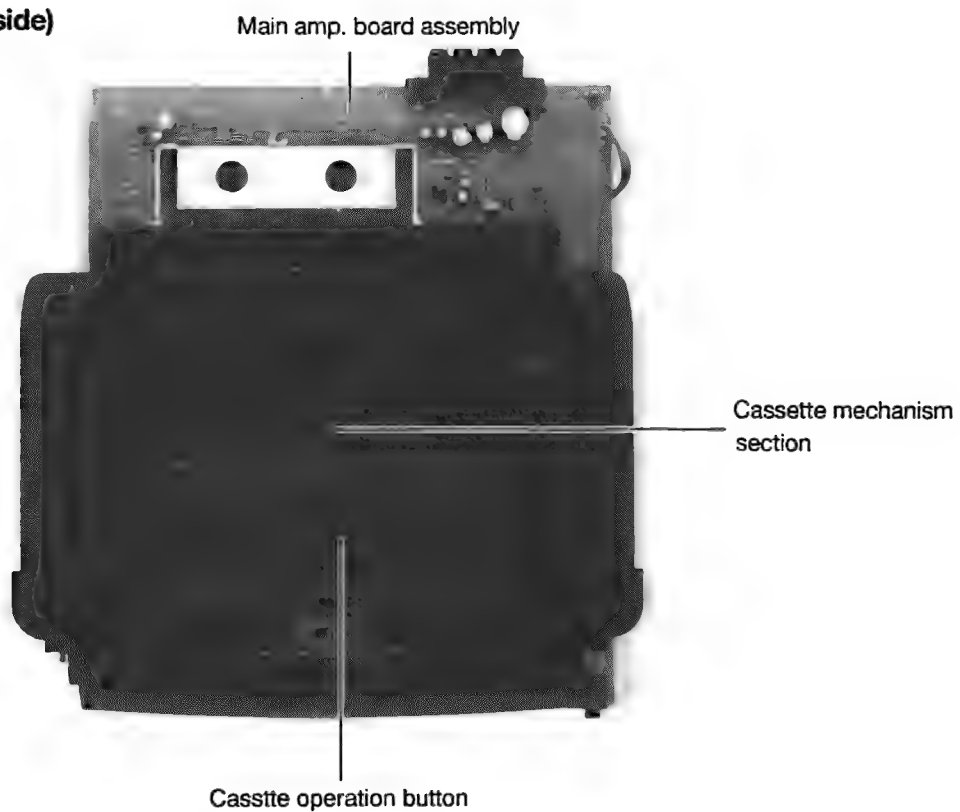


Fig. 1 - 5

■ Top cabinet unit (Bottom side)

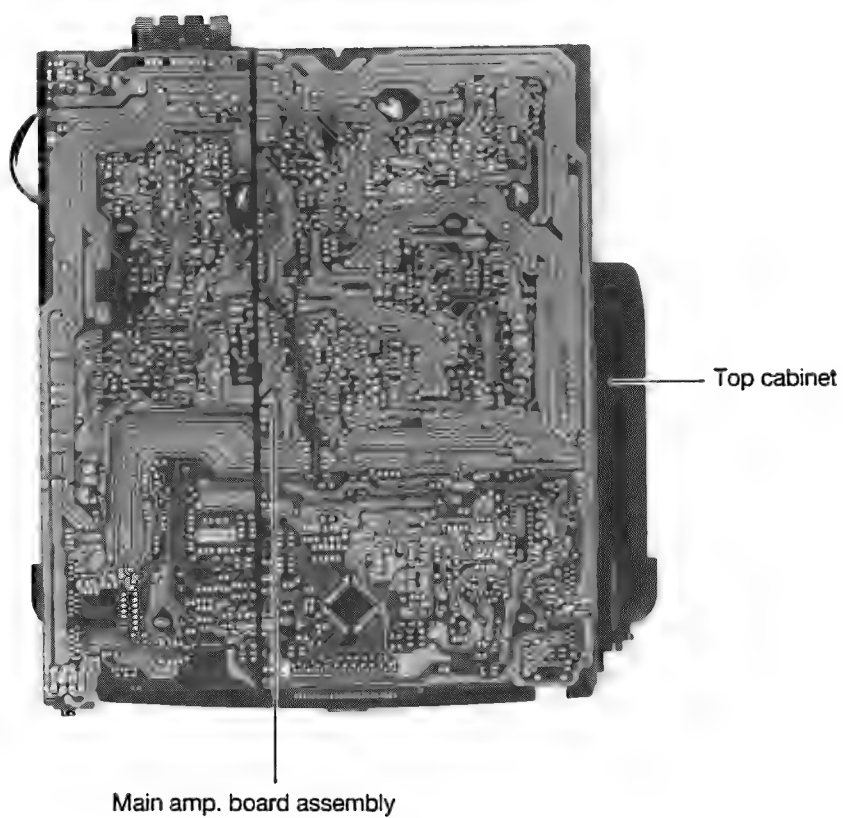


Fig. 1 - 6

■ **Top cabinet bottom side**

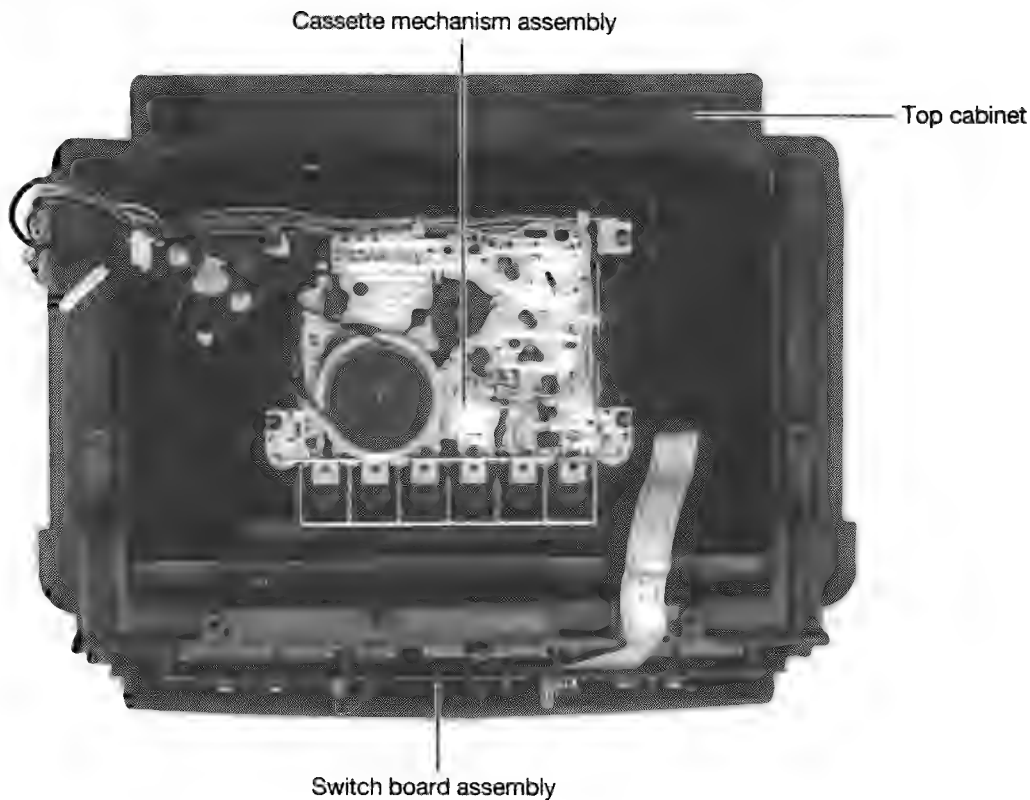


Fig. 1 – 7

■ **Main board (Top side)**

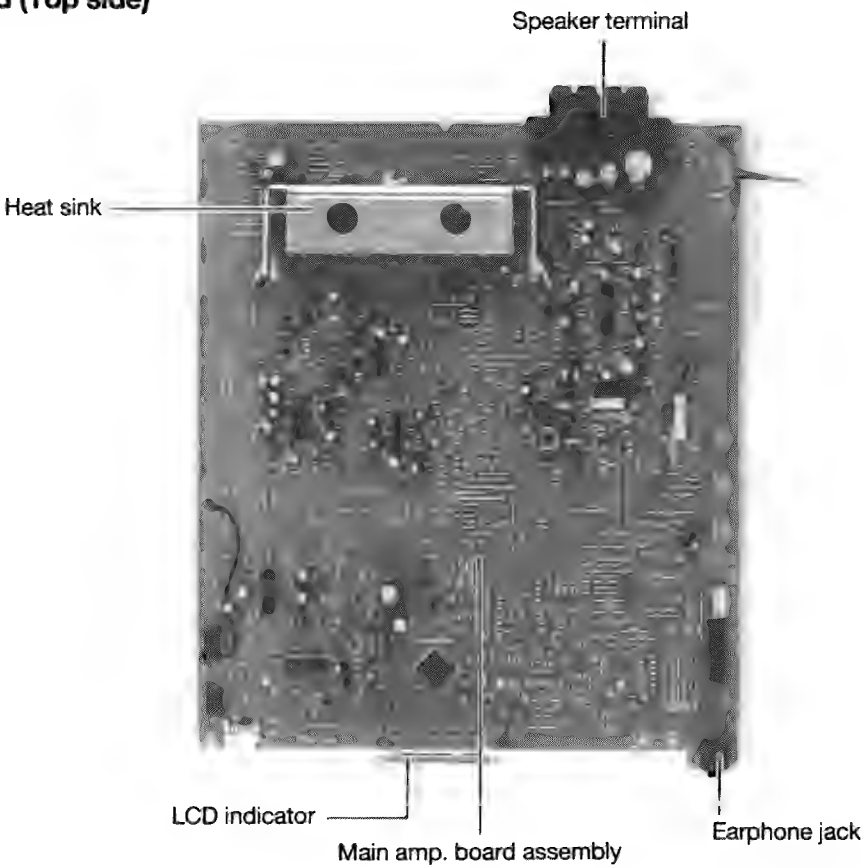


Fig. 1 – 8

■ Rear cabinet inside view

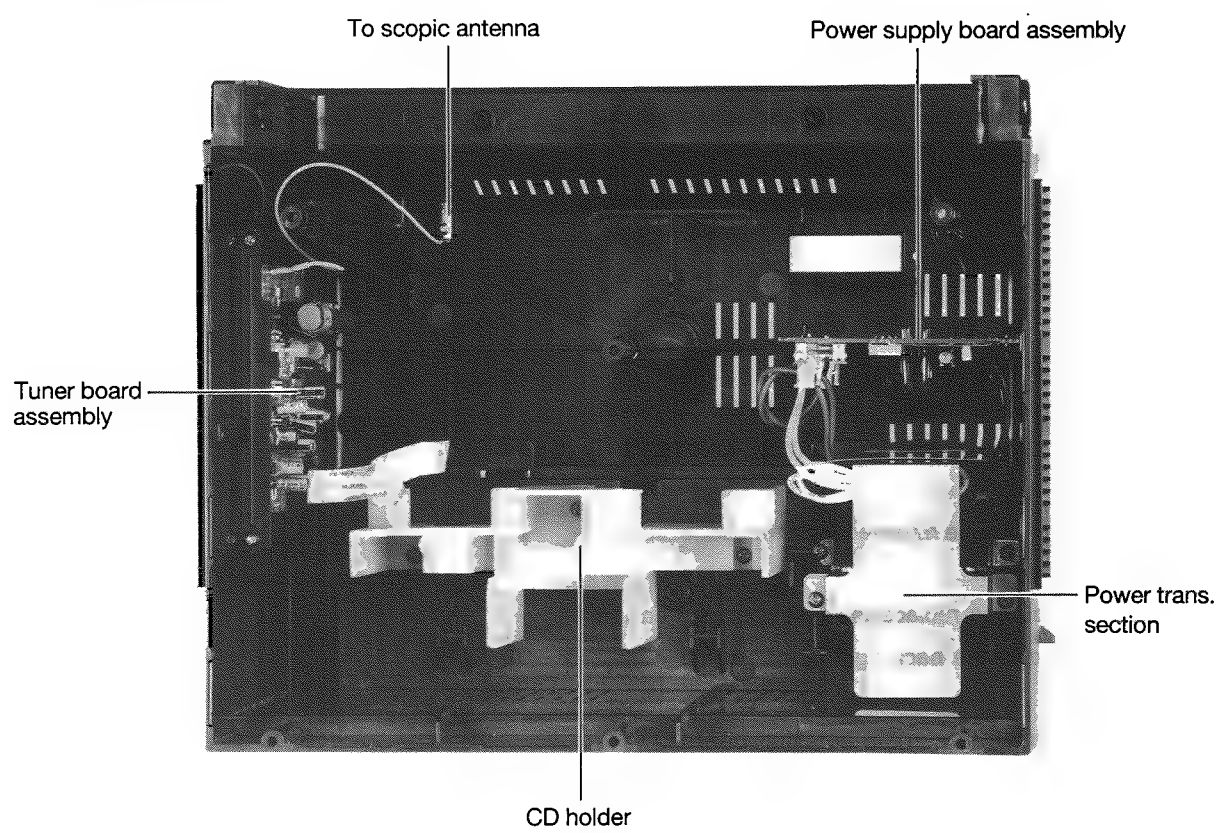


Fig. 1 - 9



## 2 Removal of Main Parts

### ■ Enclosure section

#### ◆ Front cabinet (Fig.2-1~Fig. 2-2)

1. Remove the six screws ① retaining the front cabinet from the rear and bottom. (Use a screwdriver with a shank length of 22 cm or more.)
2. Remove the two screws ② retaining the front cabinet from both sides.
3. The front cabinet can be removed if pulled towards the front.

#### ◆ CD player unit (Fig. 2-3)

1. Disconnect the three flat wires connected to the CD player from main PC board connectors CN718, CN716, and CN302.
2. The CD player unit can be removed from the rear cabinet if pulled towards the front.

(※ At this time, you can replace the fuse mounted on the power PC board in the back right corner of the rear cabinet.)

#### ◆ Cassette mechanism and main amplifier board assembly unit (Fig. 2-1, Fig. 2-3)

1. Remove the screw ③ securing the speaker terminal from the rear of the rear cabinet. (See Fig. 1.)
2. From the front, disconnect the flat wire to the tuner PC board from main PC board connector CN711.
3. Pull out the cassette mechanism and main PC board ass'y from the rear cabinet, then disconnect the wire connector (W991) on the main PC board from power PC board ass'y connector CN991 located in the back right corner of the rear cabinet.

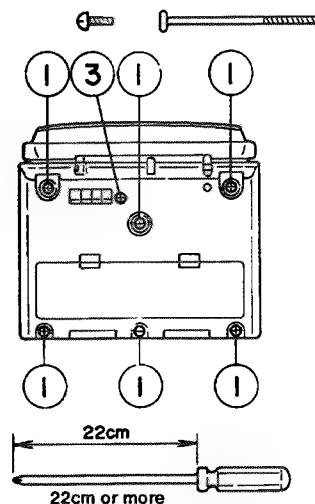


Fig. 2 - 1

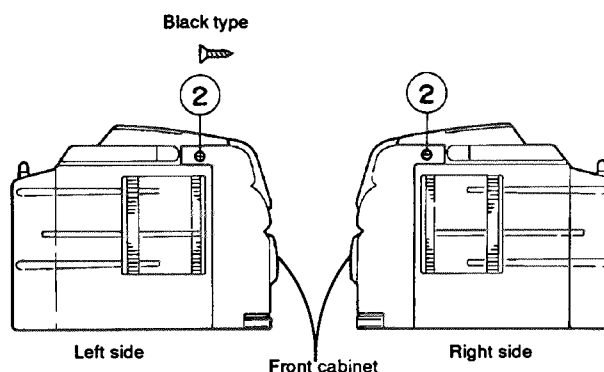


Fig.2-2

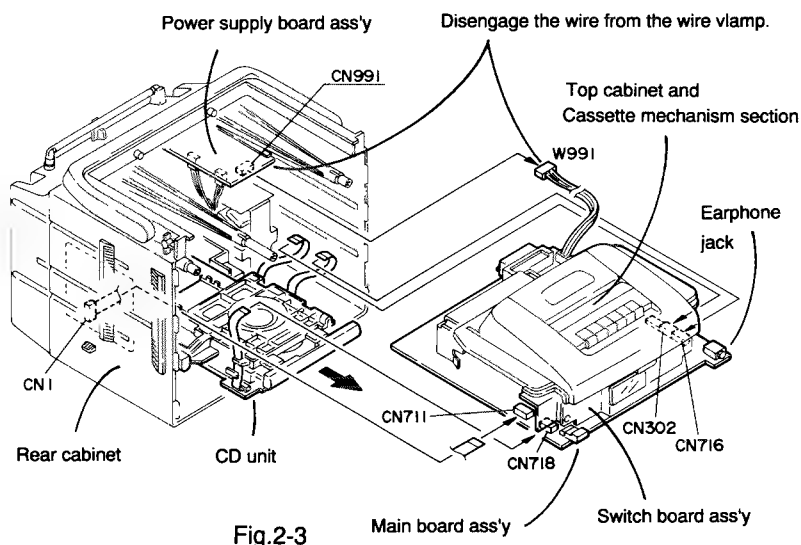


Fig.2-3

◆ Power transformer and power supply board assembly  
(Fig. 2-4)

1. Install the AC jack of the power PC board assembly onto the rear cabinet, then remove the two screws ④.
2. Disengage the tab on the battery PC board, then remove the PC board together with the power PC board. If necessary, disconnect the connector to the power transformer.
3. Remove the two screws ⑤ retaining the shield plate and power transformer.
4. Remove the two screws ⑥ retaining the power transformer.

◆ Tuner board ass'y (Fig. 2-4)

1. Disconnect the antenna wire from TP1 on the tuner PC board.
2. Remove the screw ⑦ retaining the PC board holder.
3. Pull out the PC board assembly from the rear cabinet.

◆ Internal parts of the front cabinet (Fig. 2-5)

1. Remove the front cabinet.
2. Remove the screw ⑧ retaining the power switch button.
3. Remove the screw ⑨ retaining the function switch button.
4. Remove the two screws ⑩ retaining the holder.
5. Remove the eight screws ⑪ retaining the switch PC board.

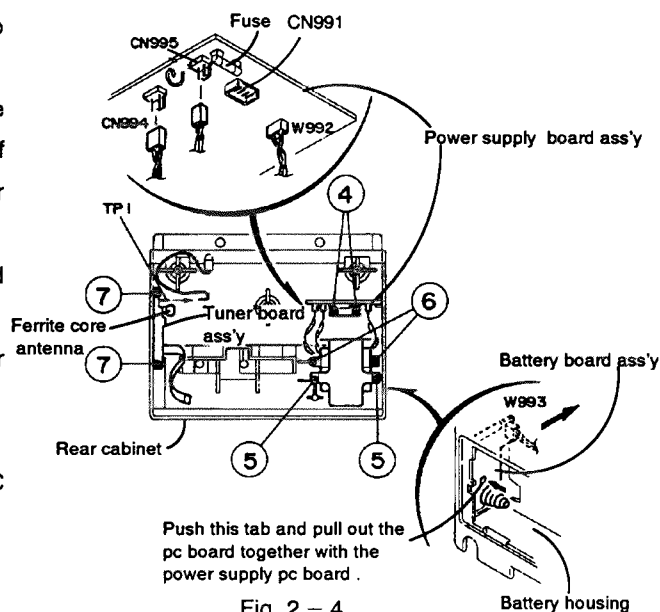


Fig. 2 - 4

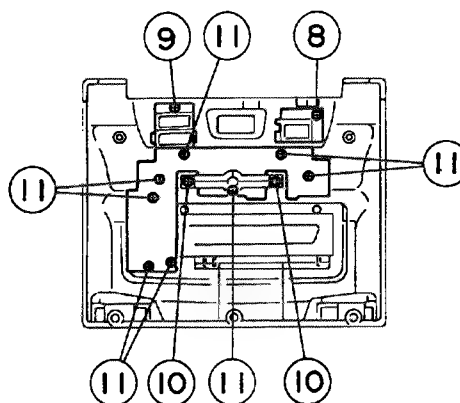


Fig. 2 - 5

◆ **Main board ass'y and cassette mechanism ass'y**

(Fig. 2-6~Fig. 2-7)

1. Remove the front cabinet.
2. Remove the cassette mechanism assembly and main board assembly unit from the rear cabinet.
3. Turn the unit upside down so that the top cabinet faces down.
4. Remove the five screws ⑫ retaining the main board ass'y.
5. Slightly lift the main PC board, then disconnect the parallel wires coming from the switch PC board assembly from CN701 on the main PC board assembly.
6. Turn the main PC board assembly upside down (the parts side will face up). Disconnect the wire holder PP11 on the PC board, then disconnect the A mechanism head wire CNA32 (5 pins), the B mechanism head wire CNA31 (3 pins), and the mechanism drive connector CNA33 (15 pins).
7. Remove the three screws ⑬ retaining the switch board ass'y. (When removing the switch PC board holder with the switch PC board mounted on it, remove the two screws ①.)
8. Remove the five screws ⑭ retaining the mechanism.
9. Open the cassette door, then remove the cassette mechanism unit from the top cabinet.

◆ **Removing the cassette door** (Fig. 2-8)

- a. Remove the cassette mechanism ass'y, push the cassette door left arm inward, disengage the door shaft and remove it from the top cabinet. Make sure to hold the edge while performing this step or the door spring may fly out, possibly causing injury.
- b. When reattaching, start with the door spring side, then push the opposite side in.
- c. Fit the door spring into the slit.

(※ Although cassette door removal is possible with the mechanism assembly mounted, removing the mechanism assembly beforehand will make it easier and ensure correctness.)

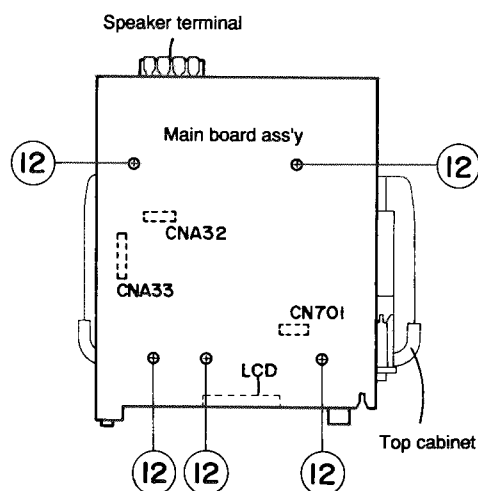


Fig.2-6

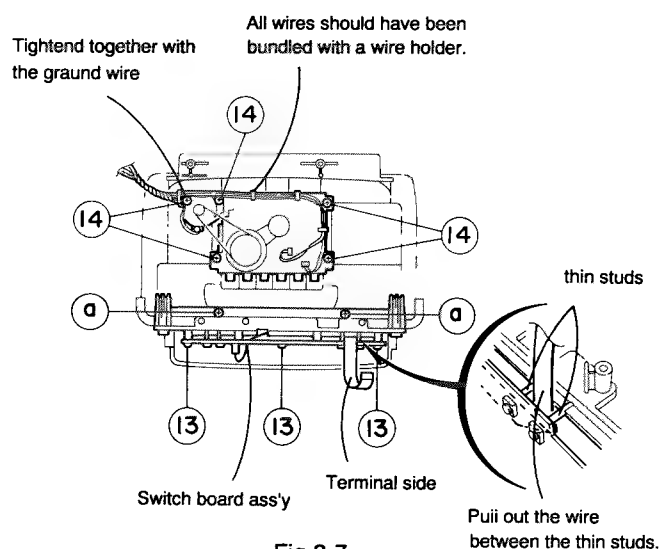


Fig.2-7

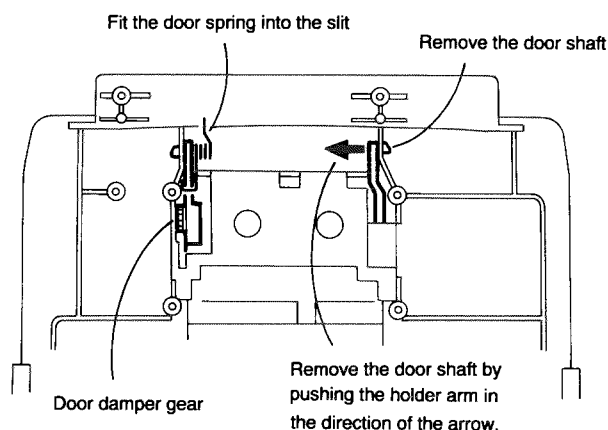


Fig.2-8

## ■ CD unit section

### ◆ Removing the CD amplifier board (See Fig. 2 – 9)

1. Remove the front panel assembly (See “Removing the front panel assembly”).
2. Remove the CD mechanism assembly (See “Removing the CD mechanism assembly”).
3. Remove the two screws ⑳ retaining the CD amplifier board.
4. From the loading base assembly, remove the two pawls (㉑ and ㉒) fixing the CD amplifier board.
5. From the connector CN501 on the CD amplifier board, remove the card wire outgoing from the CD pickup unit. In this case, the card wire should be disconnected after removing the pawls of the connector CN501 in the arrow direction as shown in Fig. 2 – 9.
6. Remove the (CD amplifier board) from the 6PIN connector outgoing from the CD mechanism board.

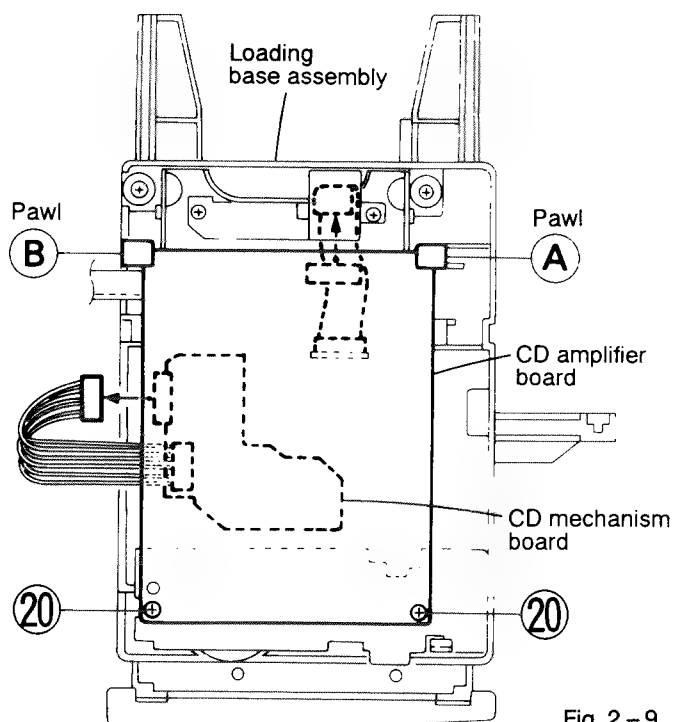


Fig. 2 – 9

### ◆ Removing the CD tray (See Fig. 2 – 10, Fig. 2 – 11)

1. Remove the front cover assembly (See “Removing the front cover assembly”).
2. Remove the CD mechanism assembly (See “Removing the CD mechanism assembly”).
3. Remove the one screw ㉑ provided for the CD tray stopper (See Fig. 2 – 10).
4. After turning over the loading base assembly, insert a plus screw driver into the hole ㉑ on the loading motor board and turn the driver counterclockwise. Then the CD mechanism will be raised (See Fig. 2 – 11).
5. By pulling out the CD tray manually toward the front side, take it out from the loading base.

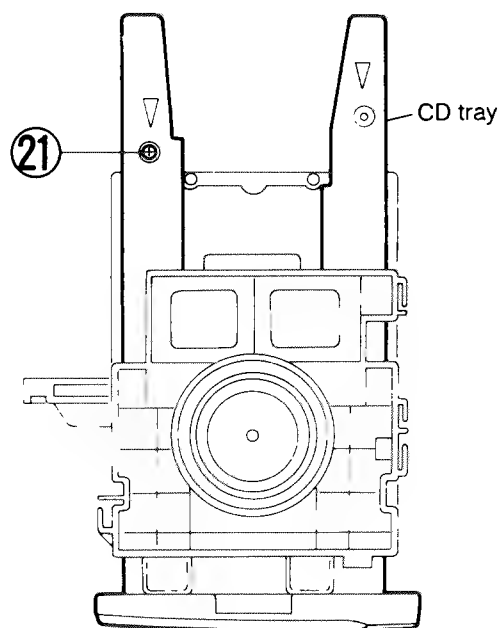


Fig. 2 – 10

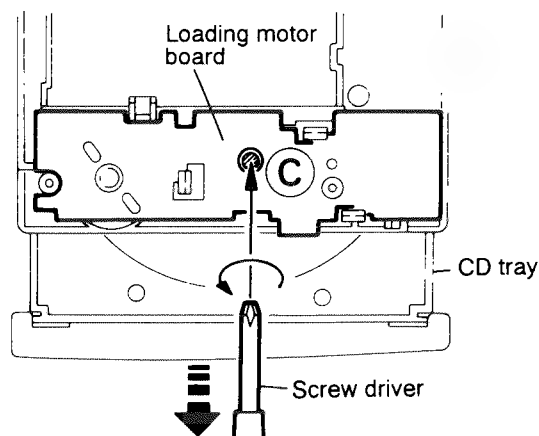


Fig. 2 – 11

◆ Removing the clamber base assembly (See Fig. 2 – 12)

Remove the two screws ②③ retaining the clamber base assembly.

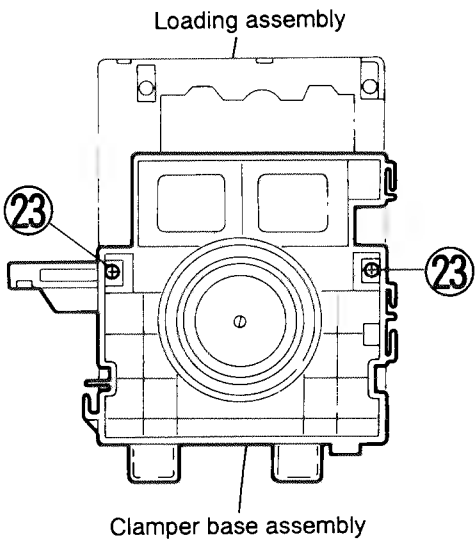


Fig. 2 – 12

◆ Removing the loading motor (See Fig. 2 – 13, Fig. 2 – 14)

1. Remove the front cover assembly (See “Removing the front cover assembly”).
2. Remove the CD mechanism assembly (See “Removing the CD mechanism assembly”).
3. Remove the CD tray (See “Removing the CD tray”).
4. Remove the clamber base (See “Removing the clamber base”).
5. From the loading base assembly, remove the two screws ②④ retaining the loading motor (See Fig. 2 – 13).
6. Remove the belt from the motor pulley (See Fig. 2 – 13).
7. After turning over the loading base assembly, remove the three pawls (①, ② and ③) by spreading these pawls in the arrow direction (See Fig. 2 – 14).
8. Remove the two soldered parts ④ connecting the loading motor (See Fig. 2 – 14).

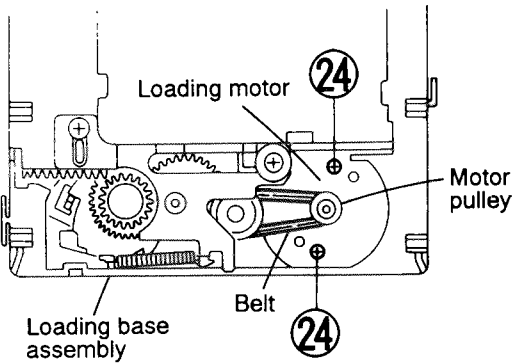


Fig. 2 – 13

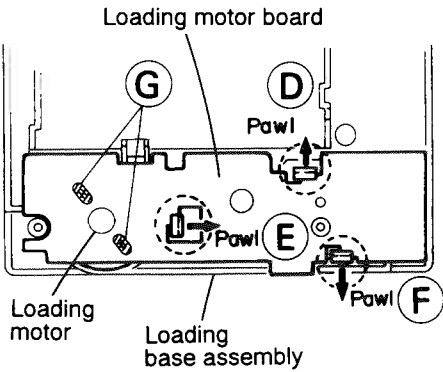


Fig. 2 – 14

◆ **Removing the CD mechanism** (See Fig. 2 – 15)

1. Remove the front cover assembly (See "Removing the front cover assembly").
  2. Remove the cassette mechanism and CD mechanism assembly (See "Removing the cassette mechanism and CD mechanism assembly").
  3. Remove the CD mechanism assembly (See "Removing the CD mechanism assembly, power amplifier assembly and clamper base assembly").
  4. Remove the two screws ②⑤ retaining the CD mechanism.
  5. To release the engagement between the shaft at the upper part of the CD mechanism and the Part ⑩ (slide groove) of the loading base assembly, take out the CD mechanism diagonally upward while pulling out the mechanism toward the front side.
- ☆ For re-assembly, move the slide of the loading base assembly in the direction of Arrow ①, and assembly the CD mechanism while inserting the shaft at the upper part of the CD mechanism into the Part A (slide groove).

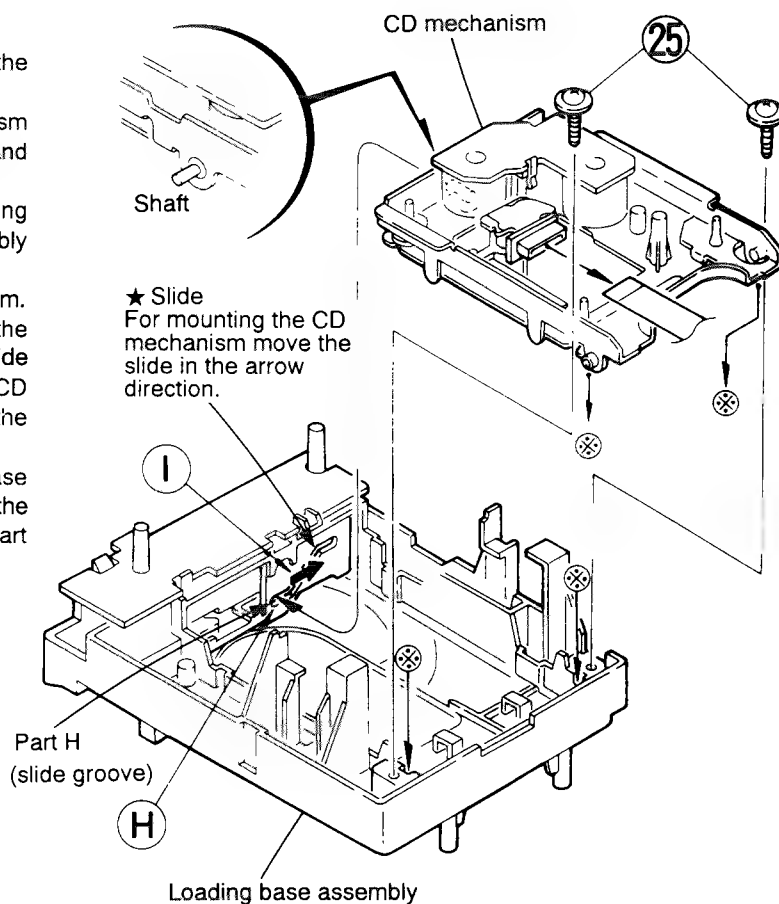


Fig. 2 – 15

◆ **Removing the CD pickup unit** (See Fig. 2 – 16)

1. Move the cam gear in the arrow direction ③. Then, the CD pickup unit will be moved in the arrow direction ④.
2. According to the above step, shift the CD pickup unit to the center position (Fig. 2 – 16).
3. While pressing the stopper retaining the shaft in the arrow direction ⑤, pull out the shaft in the arrow direction ⑥ (See Fig. 2 – 16).
4. After dismounting the shaft from the CD pickup unit, remove the CD pickup unit.

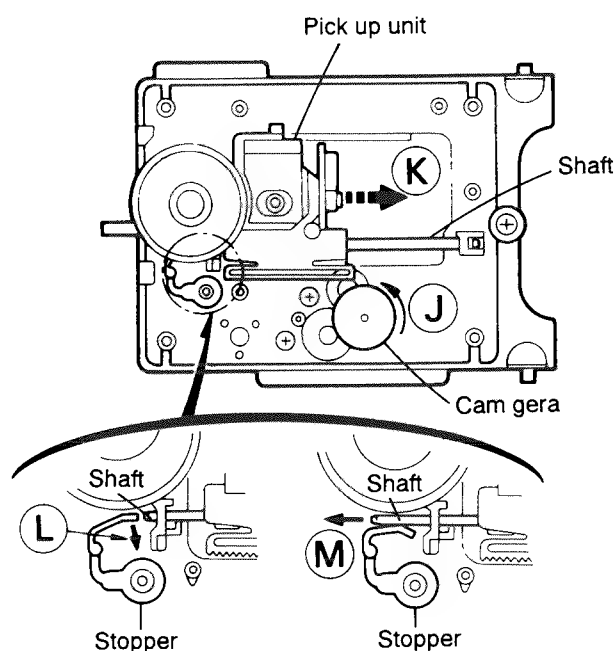


Fig. 2 – 16

## Cassette Mechanism Section

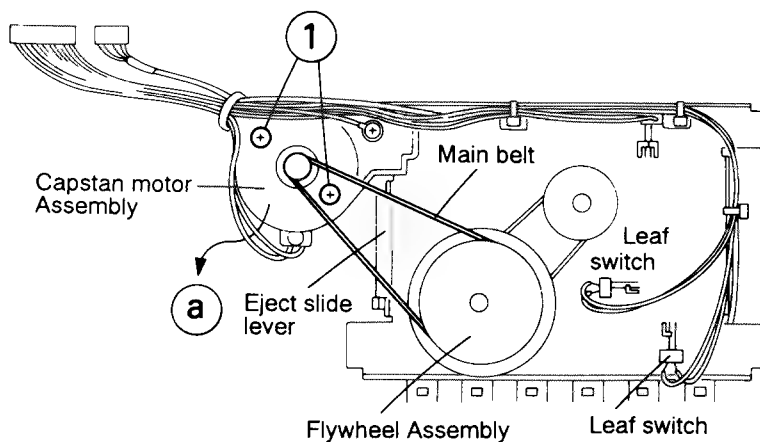


Fig.2-17

### ■ Removing the Capstan motor

(See Fig.2-17)

1. Remove the Front panel assembly.(Refer to the article“Front panel assembly”appearing on a previous page)
2. Remove the Cassette mechanism assembly.(Refer to the article“Cassette mechanism assembly” appearing on a previous page )
3. Remove the Main board(Refer to the article “Main board” appearing on a previous page.)
4. Remove the Cassette mechanism. (Refer to the article “Cassette mechanism”appearing on a previous page.)
5. Remove two screws ① retaining the capstan motor assembly from the back of the cassette mechanism .
6. Take out the main belt from the flywheel assembly. Then, slide the capstan motor slightly in the direction of the arrow ② while pulling downwards to remove together with the main belt.

### ■ Removing the Eject slide lever

(See Fig.2-18)

1. Place the cassette mechanism back side frontward and disengage the stopper arm ③ of the Eject slide lever by pressing it inwards through the opening of the chassis with a small screwdriver as shown in Fig. 2-18.
2. Disengage the Eject slide lever in the direction of arrow ④.

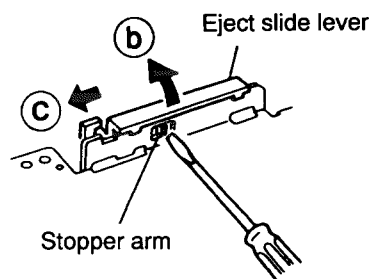


Fig.2-18

### ■ Removing the Leaf switch

(See Fig.2-19)

Press the leaf switch in the direction of the arrow ④ and then remove it in the direction of the arrow ⑤ referring to Fig. 2-19.

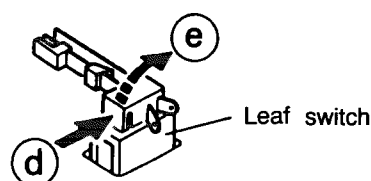


Fig.2-19



## ■ Removing the Pinch roller assembly

(See Fig.2-20)

1. Pull out the stopper protruding from the base assembly in the direction of the arrow ⑥ to remove it from the pinch roller assembly.
2. Then, pull out the pinch roller assembly in the direction of the arrow ⑨.

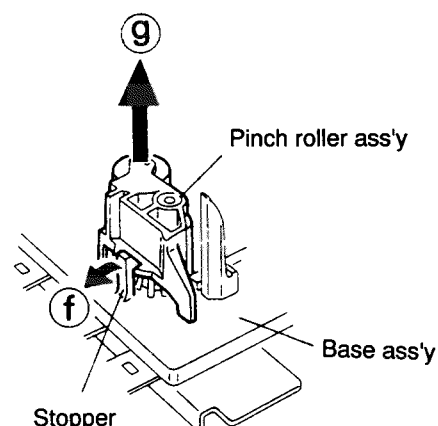


Fig.2-20

## ■ Removing the Record/Playback head & Erase head (See Fig.2-21 and 2-22)

1. Remove two screws (② and ③) retaining the Record / Playback head.
2. Pull out the stopper of the Erase head in the direction of the arrow ⑥.
3. Pull out the Erase head in the direction of the arrow ①.

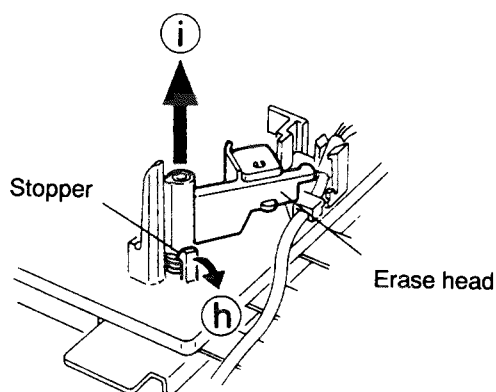


Fig.2-21

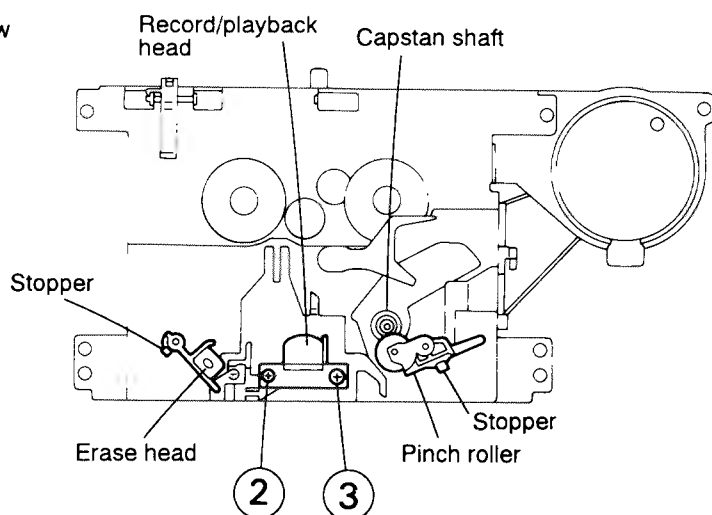


Fig.2-22

## ■ Removing the Flywheel assembly

(See Fig.2-23)

1. E. washer retaining the flywheel assembly in the direction of arrow ①.
2. Pull the flywheel assembly out of the back side of the cassette mechanism in the direction of the arrow ②.

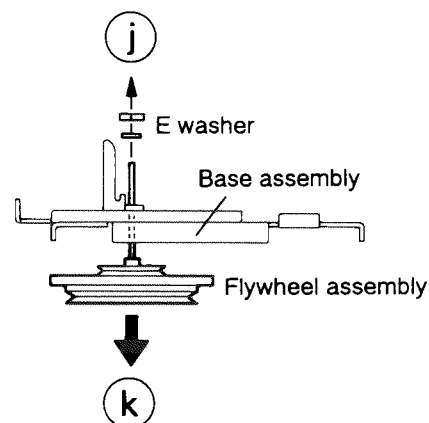


Fig.2-23

3 Main Adjustments

■ Test Instruments required for adjustment

- 1. Low frequency oscillator  
(oscillation frequency: 50Hz to 20kHz)  
( Output : 0 dBs with 60 Ω terminator)
- 2. Attenuator( Impedance : 600 Ω )
- 3. Test Tapes  
VTT712 (VT712) ..... For tape speed,wow and flutter measurement  
VTT724 (VT724) ..... For play back output level  
VTT739 (VT739) .....For playback frequency response check  
VTT703 (VT703) .....For head azimuth measurement
- 4. Electronic voltmeter, Distortion meter
- 5. Resistor...600 Ω for attenuator matching
- 6. Torque gauge..... Cassette type for CTG – N mechanism adjustment
- 7. Wow and Flutter meter , Frequency counter
- 8. Blank tape..... Normal:UR,Chrome: AC225

■ Measuring conditions (Amplifier section)

- Supply voltage ..... AC230 V (50/60 Hz)
- Reference output : Speaker ..... 0 dBs (0.775V) / 3 Ω  
(Volume Level: 19)  
: Headphone • – 10 dBs (0.245V)/ 32 Ω

● Standard position of functionswitches

- Function switch ..... TAPE
- Mode switch ..... STEREO

● Standard position of volume control

- Sound ..... Flat position
- AHB PRO ..... OFF
- Main volume adjust ..... 0 dBs Speaker out(Vol.19)  
Headphone out(Vol.20)
- Beat cut switch .....Cut1
- Standard test frequency.....1 kHz  
; unless otherwise specified.
- Reference input level..... TP(CN301) : – 20dBs
- Input for REC/PB, Check &measuring ..... CN301  
: –20 dBs

● Test remarks

- 1. Negative side of the input and output on the testing set, that ought to be separately to each other, and then bear in mind there connection the testing set with 2 channeles Electronic voltmeter, the negative side never connect commonly.
- 2. Replaced output load with a dummy and that lead wire to be used as big as possible.
- 3. Attach top cover when measuring and connect filter shown below Fig. 1 to V. meter.

■ Measuring condition (Radio section)

- Refer to rating source ..... Tuner+B : DC 5.7V
- Reference output ..... Speaker : 20mW(0.245 V) / 3 Ω  
Headphone : 0.11 mW (0.06 V)/32 Ω
- AM frequency ..... 400Hz modulation 30%
- FM frequency ..... 400Hz modulation  
frequency deviation 22.5kHz

● Standard position of switches and controllers

- Function..... RADIO
- Mode ..... STEREO

● Careful points for adjustment

- 1. Connect 30 pF capacitor and 33 k Ω resistor to the output side of the IF sweeper in series while 0.082 μ F capacitor and 100k Ω resistor to the input side in series.
- 2.Set output level of the IF sweeper as minimum as adjustable.
- 3. RF Alignment order  
Procedure of the steps of tracking should be kept.

◎ Test point : CN301( Top view )

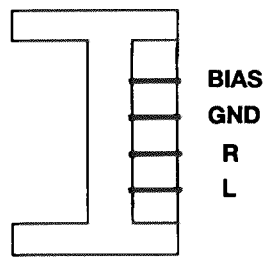


Fig. 3 – 1

## ■ Arrangement of Adjusting Position

### (Cassette mechanism)

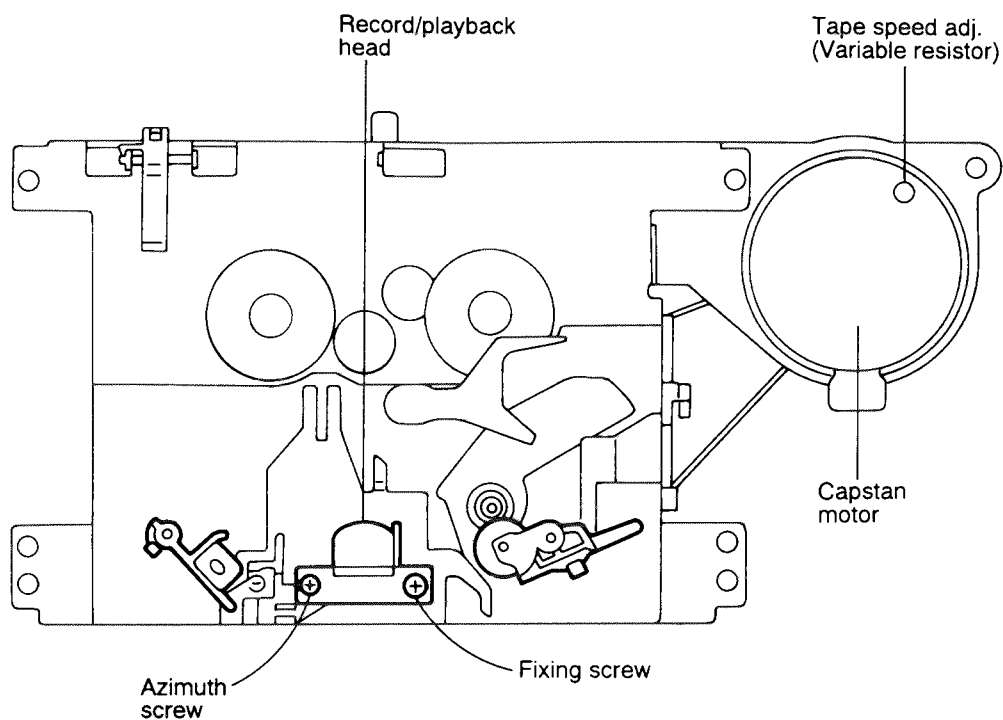


Fig.3-2

## ■ Tuner board

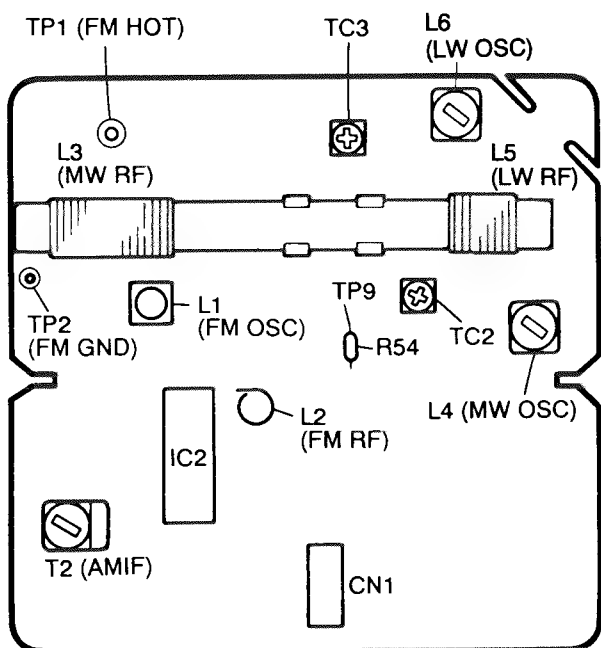


Fig.3-3

## ■ Main board

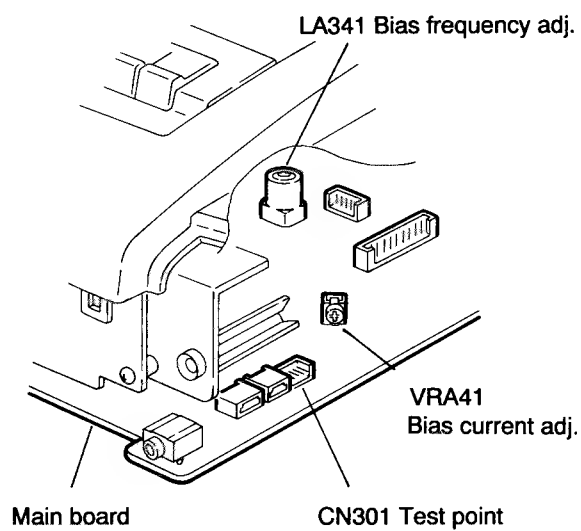


Fig.3-4

**■ Cassette and amplifier section**

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Head azimuth adjustment	<ul style="list-style-type: none"> <li>• Test tape : VTT703 (10kHz)</li> <li>• Output terminal for measurement : Headphone</li> <li>• Input terminal for measurement : CN301</li> </ul>	<p>* Adjust the head azimuth screw only when the head is replaced.</p> <p>① Playback test tape VTT703 ( 10kHz) .</p> <p>② Adjust the head azimuth so that the phase difference is minimum (Within 2dB of the peak level of play output.) After adjustment apply the screw locking adhesive to the head azimuth screw more than a half around the screw head.</p>	<p>Within 2dB of the peak level</p> <p>Minimum phase difference</p>	Head azimuth adjusting screw
Tape speed adjustment and wow &Flutter checking	<ul style="list-style-type: none"> <li>• Test tape : VTT712 (3kHz)</li> <li>• Output terminal for measurement : Headphone</li> </ul>	<p>① When playing test tape VTT712 (3kHz).</p> <p>② Check that the frequency counter reading is 2960Hz ~3070Hz . If the reading is out of this range, adjust the variable resistor in the motor housing .</p> <p>③ Wow &amp;Flutter should be less than 0.35%(JIS UNWTD)</p>	<ul style="list-style-type: none"> <li>• Tape speed : 2960Hz ~3070Hz</li> <li>Wow &amp;Flutter : Less than 0.35%(JIS UNWTD)</li> </ul>	Variable resistor in the motor housing .
Play back output level checking	<ul style="list-style-type: none"> <li>• Test tape : VTT724 (1kHz)</li> <li>• Output terminal for measurement : Headphone</li> </ul>	<p>① When Playback the test tape VTT724 (1kHz) , the output level at headphone is <math>-24\text{dB} \pm 3\text{dB}</math> at 1kHz.</p> <p>② Deviation L and R : less than 3dB</p>	$-24\text{dB} \pm 3\text{dB}$	
Playback frequency response checking	<ul style="list-style-type: none"> <li>• Test tape : VTT739</li> <li>• Output terminal for measurement : Headphone</li> </ul>	When playback the test tape VTT739, response should be $-3\text{dB} \pm 4\text{dB}$ at 63Hz and 1kHz, $\pm 0\text{dB} \pm 4\text{dB}$ at 10kHz and 1kHz with respect to 1kHz.	<p>63Hz and 1kHz : <math>-3\text{dB} \pm 4\text{dB}</math></p> <p>10kHz and 1kHz : <math>\pm 0\text{dB} \pm 4\text{dB}</math></p>	
Record / playback frequency response adjustment	<ul style="list-style-type: none"> <li>• Reference frequency : 1kHz, 10kHz (Ref. <math>-20\text{dB}</math>)</li> <li>• Test tape : AC224</li> <li>• Output terminal for measurement : CN301</li> </ul>	<p>① Record and playback the 1kHz reference frequency and 10kHz signal and check at terminal CN301.</p> <p>② Adjust the VRA41 so that record and playback frequency response with 1kHz and 10kHz at CN301 is <math>\pm 0\text{dB} \pm 1\text{dB}</math></p> <p>③ Confirm that the frequency counter reading is 86kHz <math>\pm 3\text{kHz}</math>. If the reading is out of this range, adjust LA341.</p>	<p><math>+1\text{dB} \pm 1\text{dB}</math></p> <p>86kHz <math>\pm 1\text{kHz}</math></p>	<p>VRA41</p> <p>LA341</p>
Record / playback sensitivity check	<ul style="list-style-type: none"> <li>• Test tape : VTT724, AC224</li> </ul>	While recording / playing back an input signal of the reference level (REC level), confirm that difference between the REC / PB level of the input signal and PB level of the VTT724 test tape is within $0 \pm 3\text{dB}$ .	$0 \pm 3\text{dB}$	



## ■ Tuner section

FM,AM IF adjustment : Since a solid IF is being used,no adjustment is required.

MPX adjustment : Since a ceramic resonator is being used,no adjustment is required.

FM tracking adjustment : Since a fixed coil is being used,no adjustment is required.

Item	Conditions	Adjustment&Confirmation Methods	Stand.values	Adjust
SW Tracking adjustment	<ul style="list-style-type: none"> <li>Band:LW</li> <li>Signal input Dummy antenna</li> <li>Test point :TP9</li> <li>Signal output :CN1</li> </ul>	<ol style="list-style-type: none"> <li>Adjust L6 so that the CN1 output is maximum when 144kHz(preset 6)is received from the AM signal generator.Adjust L6 to obtain <math>1.1 \pm 0.02V</math> at TP9.</li> <li>Adjust L5 so that the CN1 output is maximum when 144kHz(preset 6)is received from the AM signal generator</li> <li>Adjust TC3 so that the CN1 output is maximum when 288kHz(preset 7)is received from the AM signal generator</li> <li>Repeat the item ②,③,adjust for no further improvement.</li> </ol>	Output level :Maximum $1.1 \pm 0.02V$ at TP9.  Output level :Maximum  Output level :Maximum	L6  L5  TC3  L5,TC3
AM Tracking adjustment	<ul style="list-style-type: none"> <li>Band:SW</li> <li>Signal input Standard loop antenna</li> <li>Test point :TP9</li> <li>Signal output :CN1</li> </ul>	<ol style="list-style-type: none"> <li>Confirm so that the CN1 output is maximum when 1629kHz(preset 2)is received from the AM signal generator.</li> <li>Incase voltage at TP9 is more than 5.0 Vadjust L4 to obtain <math>5.0 \pm 0.1V</math> at TP9.</li> <li>Adjust L3 so that the CN1 output is maximum when 603kHz(preset 3)is received from the AM signal generator.</li> <li>Adjust TC2 so that the CN1 output is maximum when 1404kHz(preset 4)is received from the AM signal generator.</li> <li>Repeat the item ④,⑤,adjust for no further improvement.</li> </ol>	Output level :Maximum  $5.0 \pm 0.1V$ at TP9 Output level :Maximum  Output level :Maximum	  L4 L3  TC2  L3,TC2

## ● Adjusting position of CD amplifier board

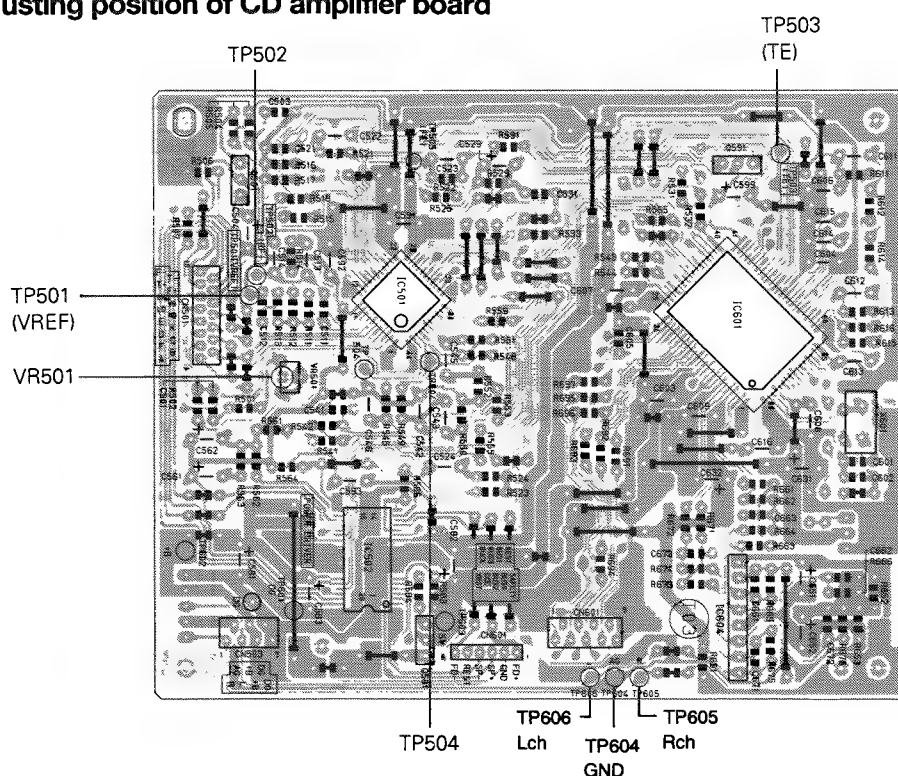
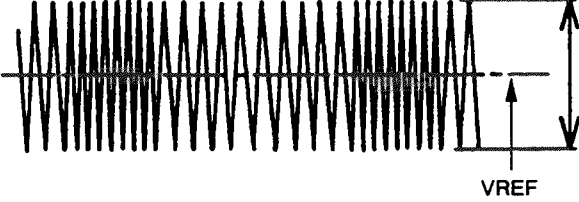
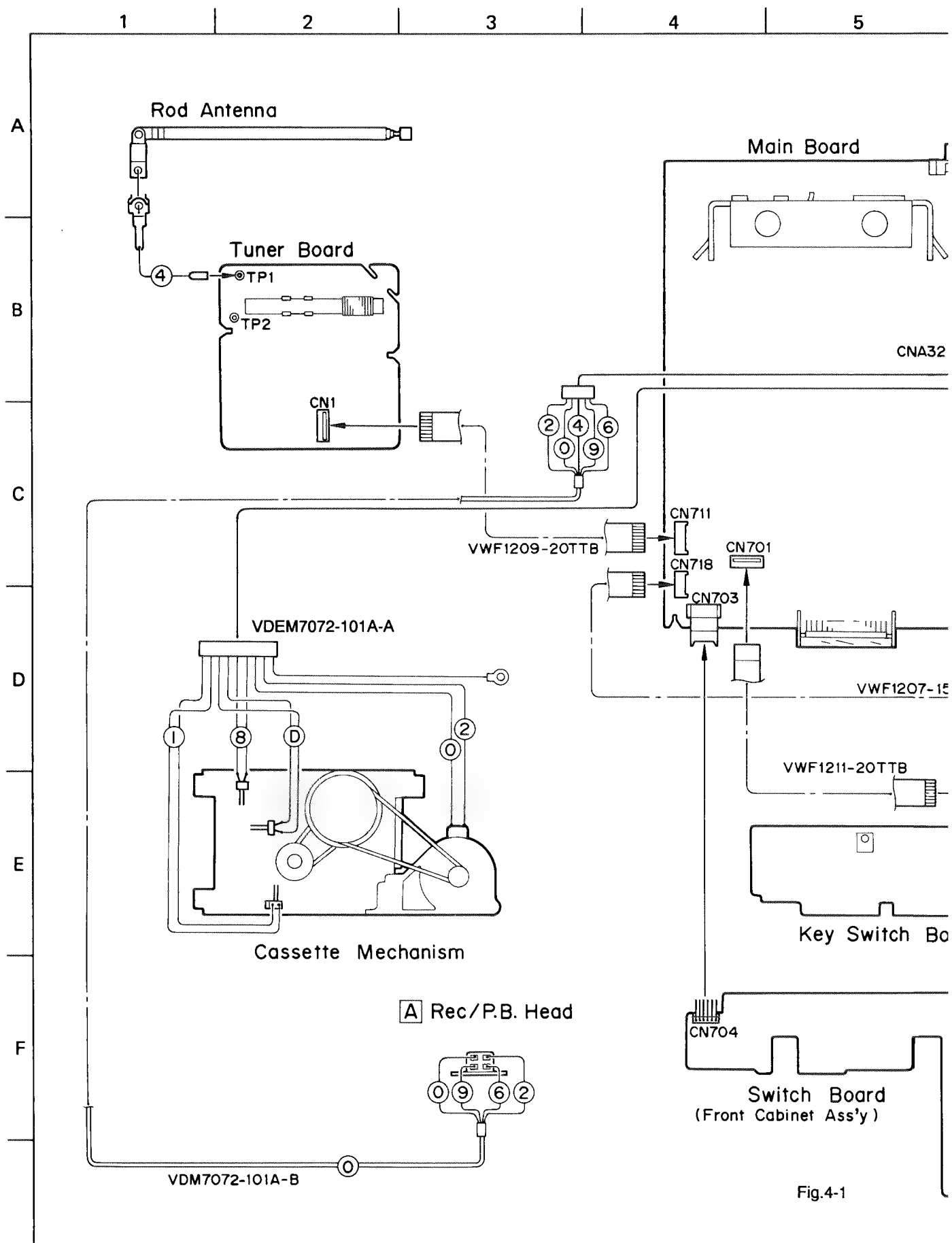


Fig. 3 – 5

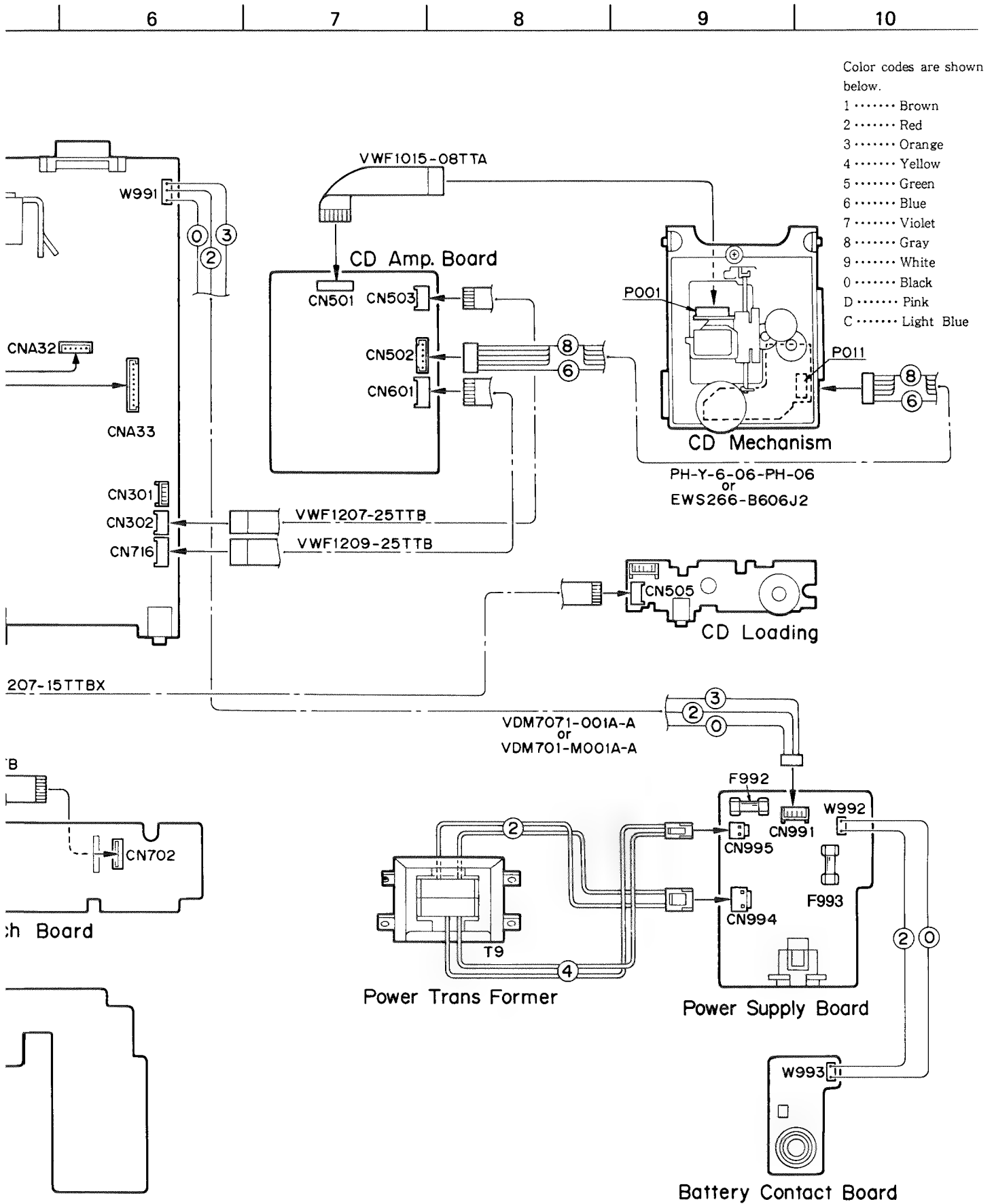
## ■ CD player section

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Tracking offset adjustment	Test disc :CTS1000 Oscilloscope  <b>Note 1</b> Adjust VR501 so that the waveform becomes vertically symmetrical to the reference voltage value of servo.  <b>Note 2</b> The oscilloscope input should be DC – coupled.  <b>Note 3</b> VREF: Ground level on the oscilloscope.	① Connect TP503 (TE) and TP501 (VREF) respectively to the hot and ground sides of the oscilloscope. ② Replay the test disc CTS1000. ③ When TP504 and TP501 have been connected (Shorted) during replay, a tracking error signal will be emitted for about 3 sec. (Since the tracking error signal will be emitted at all times when the model with a test mode function is shifted to TEST mode, the adjustment can be performed more easily). ④ Since the waveform of tracking error signal displayed by the oscilloscope goes up and down when VR501 has been adjusted, adjust VR501 so that the center of the waveform amplitude becomes a reference voltage value of servo(VREF). ⑤ Repeat the steps ② – ④ until the center of the waveform amplitude of tracking error signal becomes the reference voltage value of servo (This step is not necessary in the case of the model with test mode function).	Adjust the center of waveform amplitude to the reference voltage value of servo (VREF).	VR501
<div style="text-align: center;"> <p>Tracking error signal</p>  <p>VREF</p> </div> <div style="text-align: right; margin-top: 10px;">           Adjust the waveform becomes vertically symmetrical to the reference voltage value of servo.         </div>				

# **4 Wiring Connection**









## 5 Troubleshooting

### ■ Pickup maintenance

#### (1) Checking the service life of laser diode

If a laser diode reaches the end of its service life, the following phenomena will show up. Similar symptoms may also appear when the pickup lens becomes too dirty. In this case, clean the lens.

1) The RF output (between TP502(RF) and TP501(VREF) )

2) The driving current, necessary for the laser diode to emit lights, increases. (Calculate from the voltage level at both ends of the R505 at 10  $\Omega$  .)

◆ Following the flow chart shown below, check the service life.

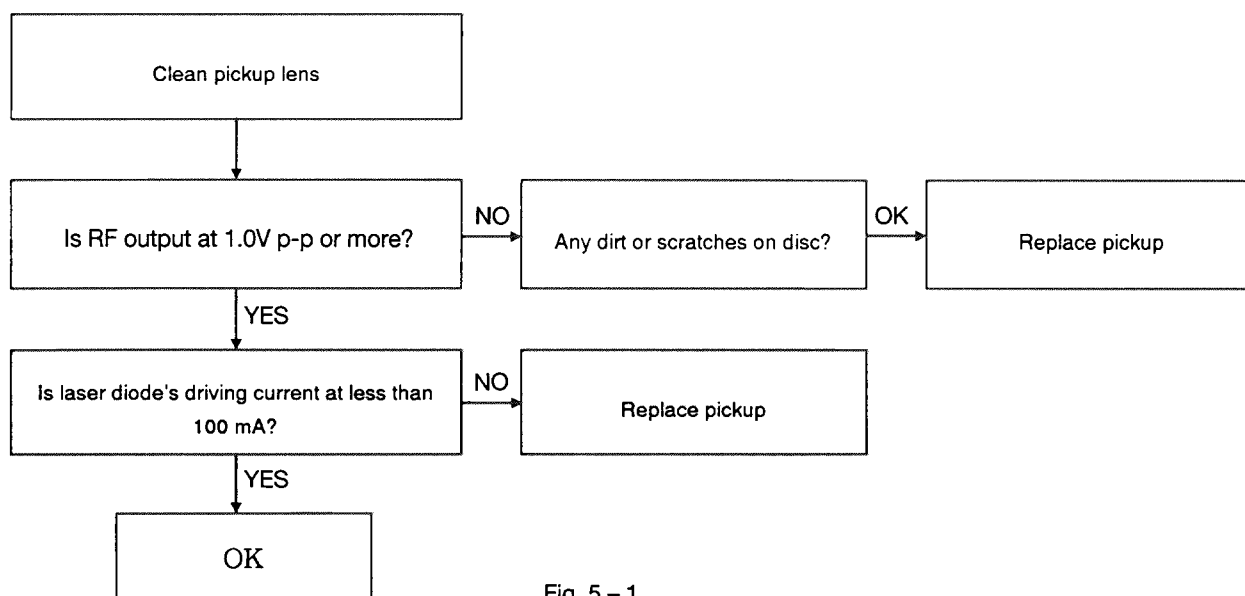


Fig. 5 – 1

#### ◆ How to measure laser diode's driving current

After connecting a voltmeter at both ends of the R505(10  $\Omega$  ), measure the voltage during playback. If the voltage level is at 1.0 V or more, the service life of the laser diode has expired.

Laser diode's driving current (A)

= Voltage level at both ends of R505 (V)/10 (  $\Omega$  )

When voltage level is at 1.0 V:

$1.0 \text{ V} / 10 \Omega = 0.1 \text{ A} = 100 \text{ mA}$

Note:

The laser diode easily breaks down. Be sure to turn the power off before connecting a voltmeter.

■ Self – Diagnosis Functoin of CD

1. Purpose

This function is designed to display an error to readily clarify the cause of such an error should any trouble occur in CD.

2. How to Use the Function

- (1) Turn the microcomputer action of the set to [TEST] mode.
- (2) Press **POWER** + **□ /CLEAR** on the remote control same time. Confirm that all of the LCDs have been turned on when set to the [TEST] mode subsequent to the step in item (2).
- (3) Whe the CD trouble has occurred after starting CD, an error code will be displayed on the display section of LCD, etc.

3. Error code and location in trouble

(See Figs. 6 – 5~6 – 9)

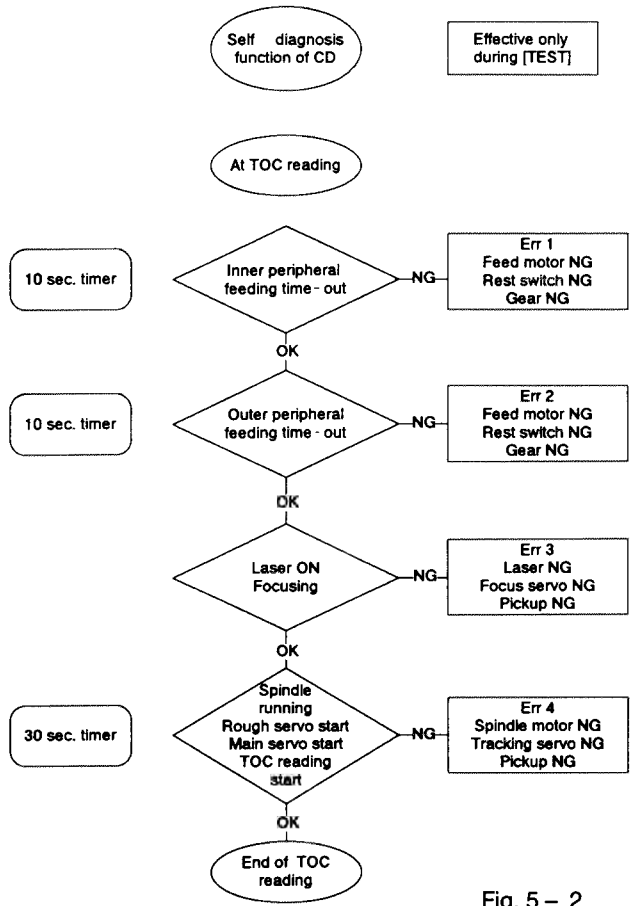


Fig. 5 – 2

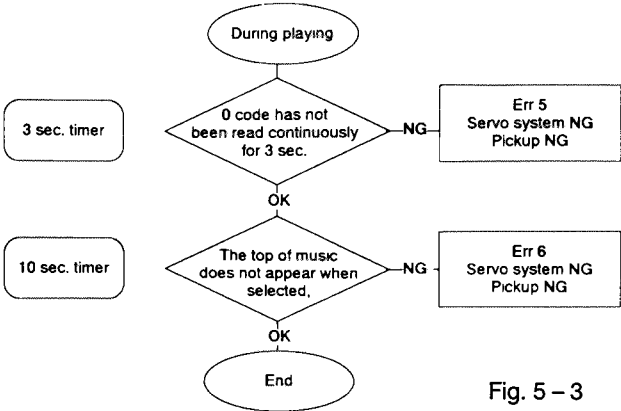


Fig. 5 – 3

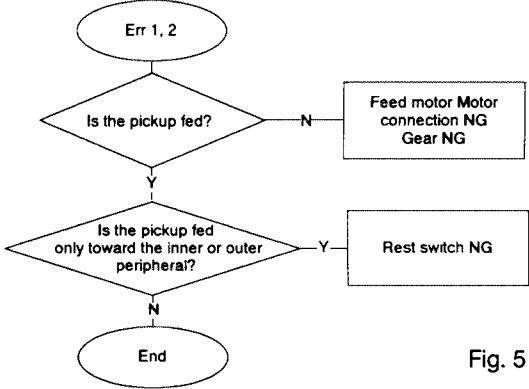


Fig. 5 – 4

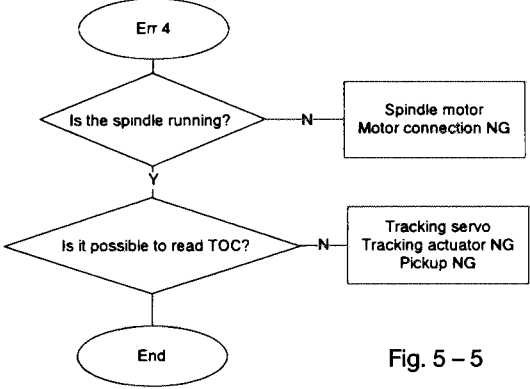


Fig. 5 – 5

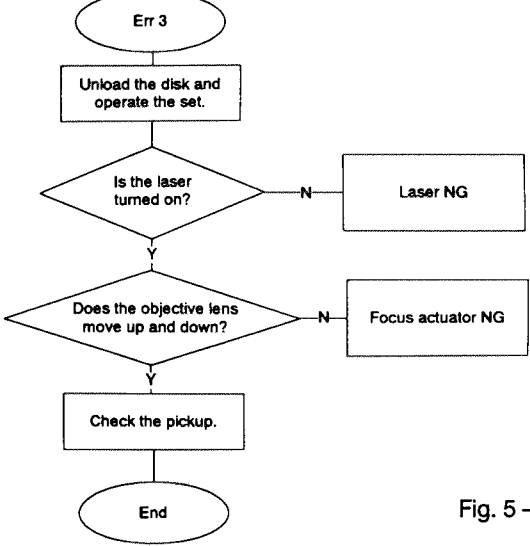


Fig. 5 – 6

## General descriptions of TOC (Table of Contents) readings

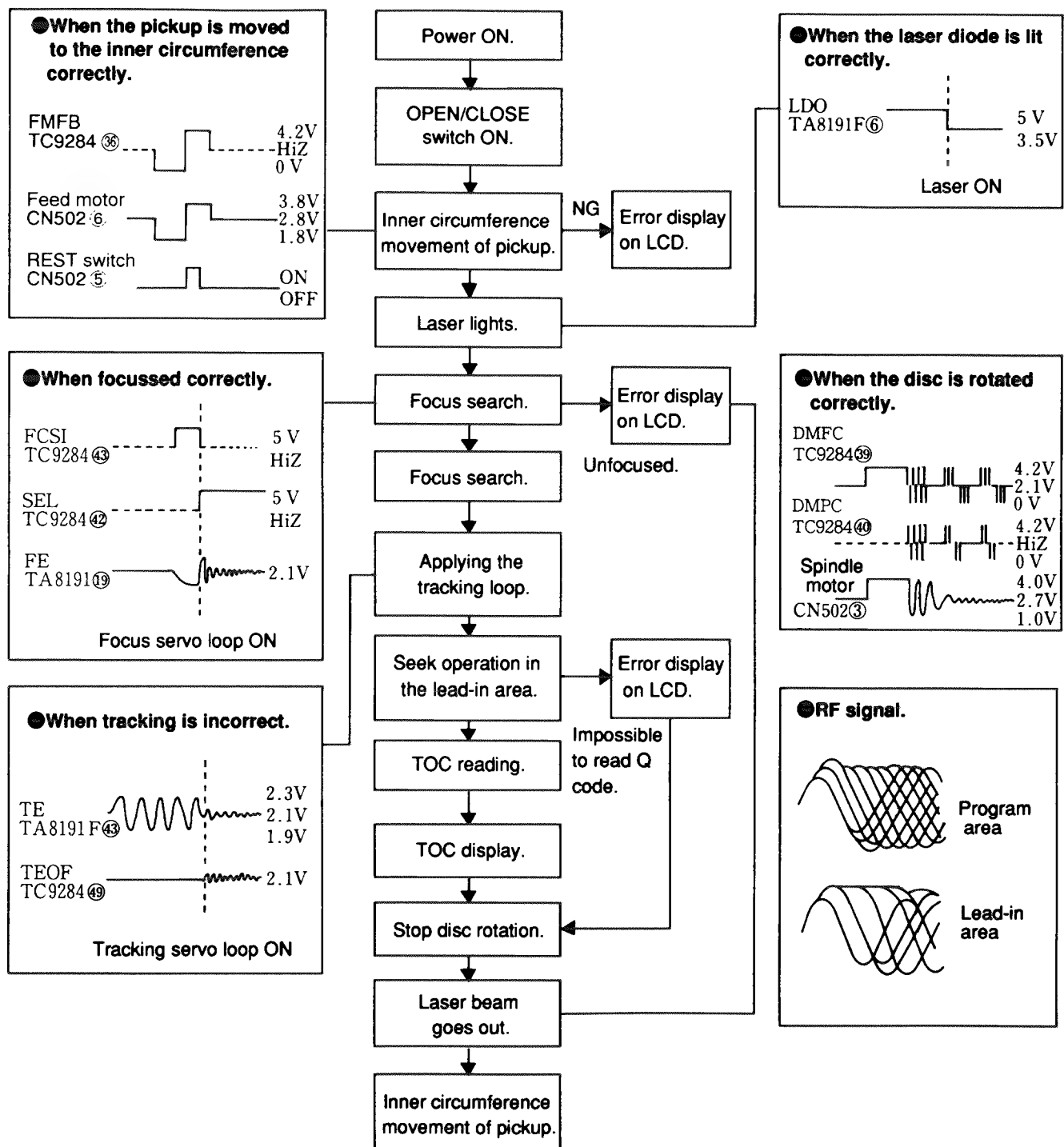


Fig. 5 - 7

■General section

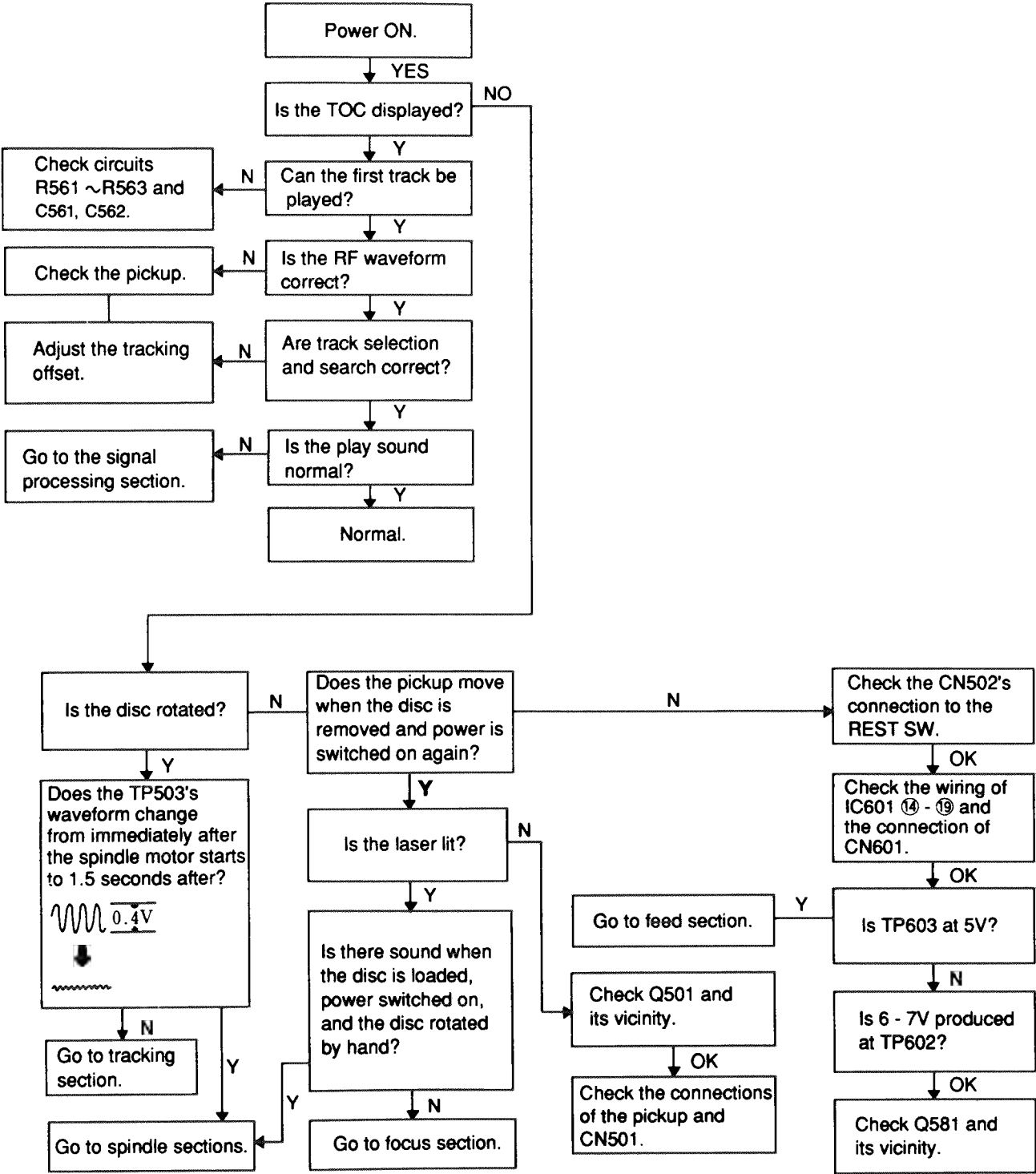


Fig. 5 - 8

## ■ Feed section

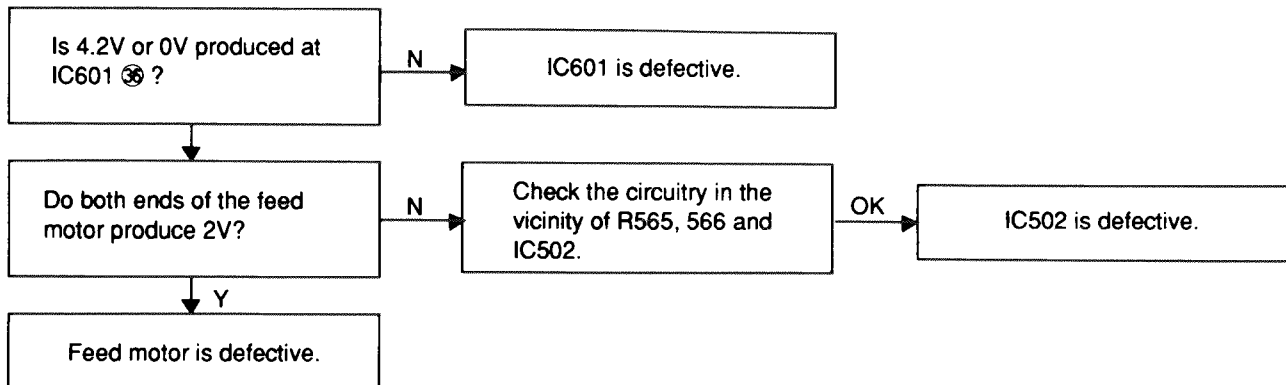


Fig. 5 - 9

## ■ Focus section

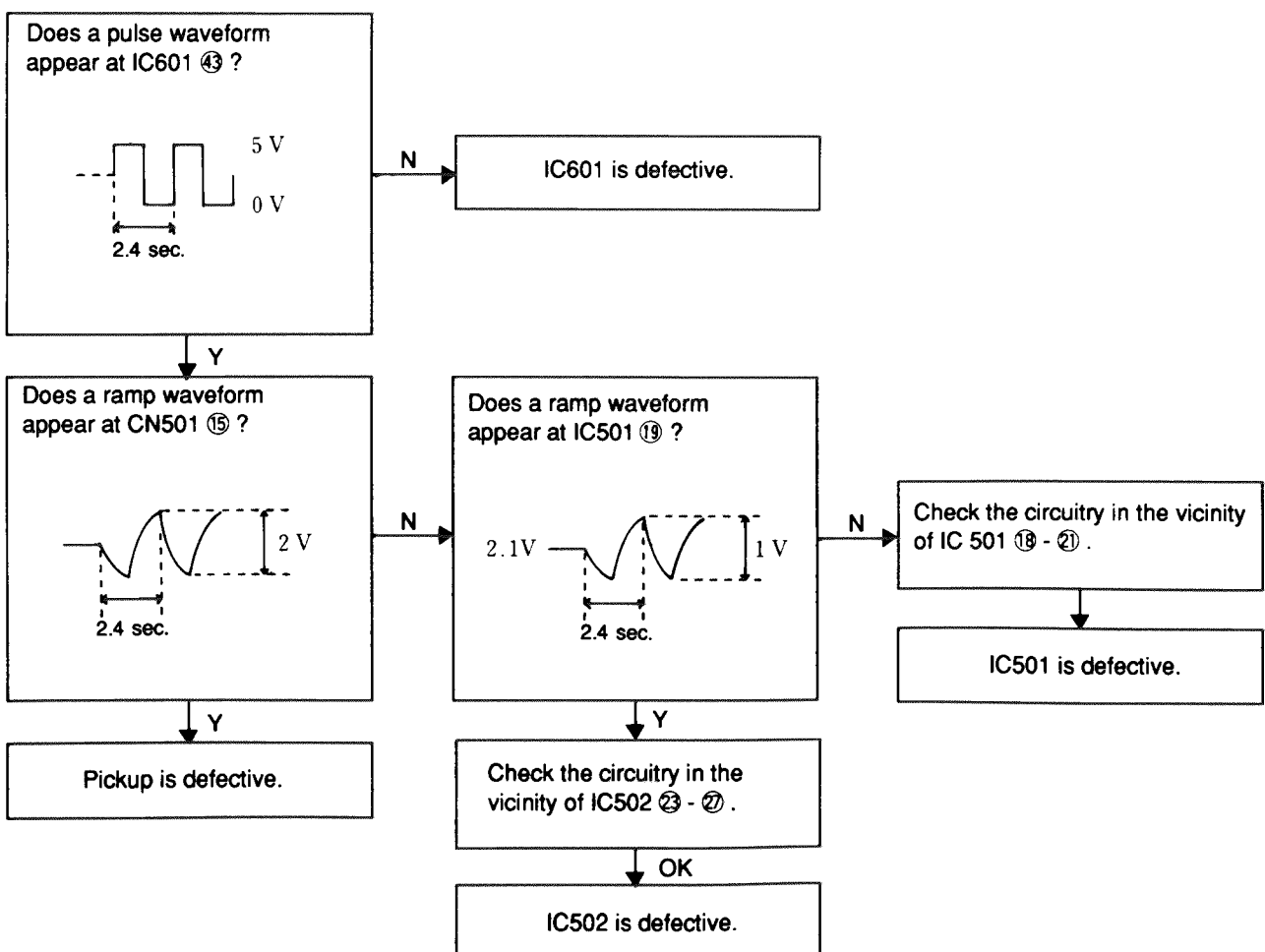


Fig. 5 - 10

■ Spindle motor section

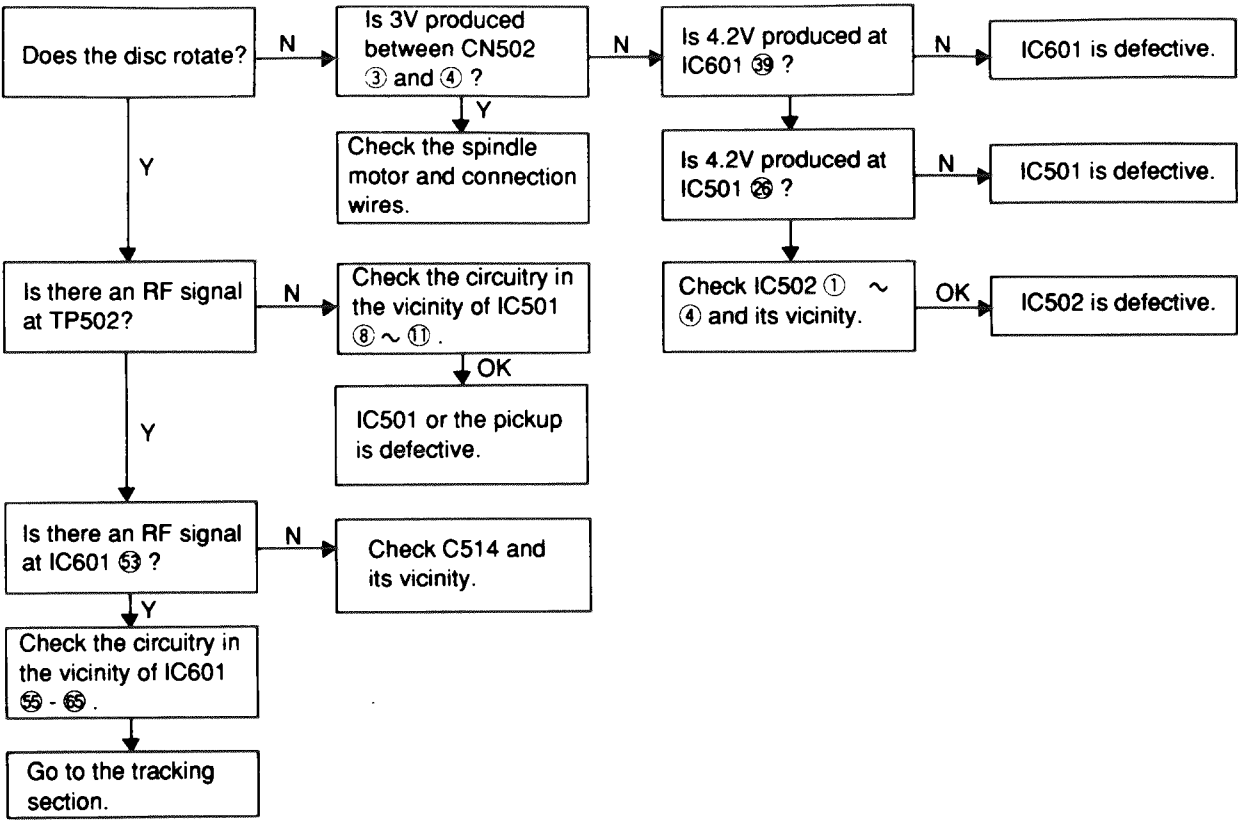


Fig. 2 - 11

■ Signal processing section

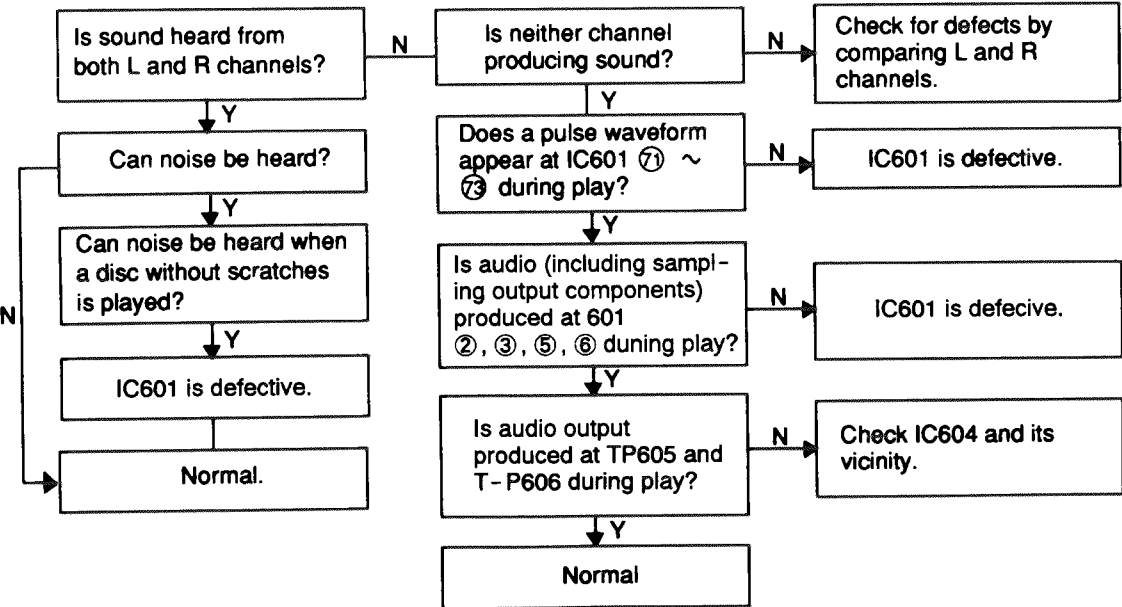


Fig. 5 - 12



## ■ Tracking section

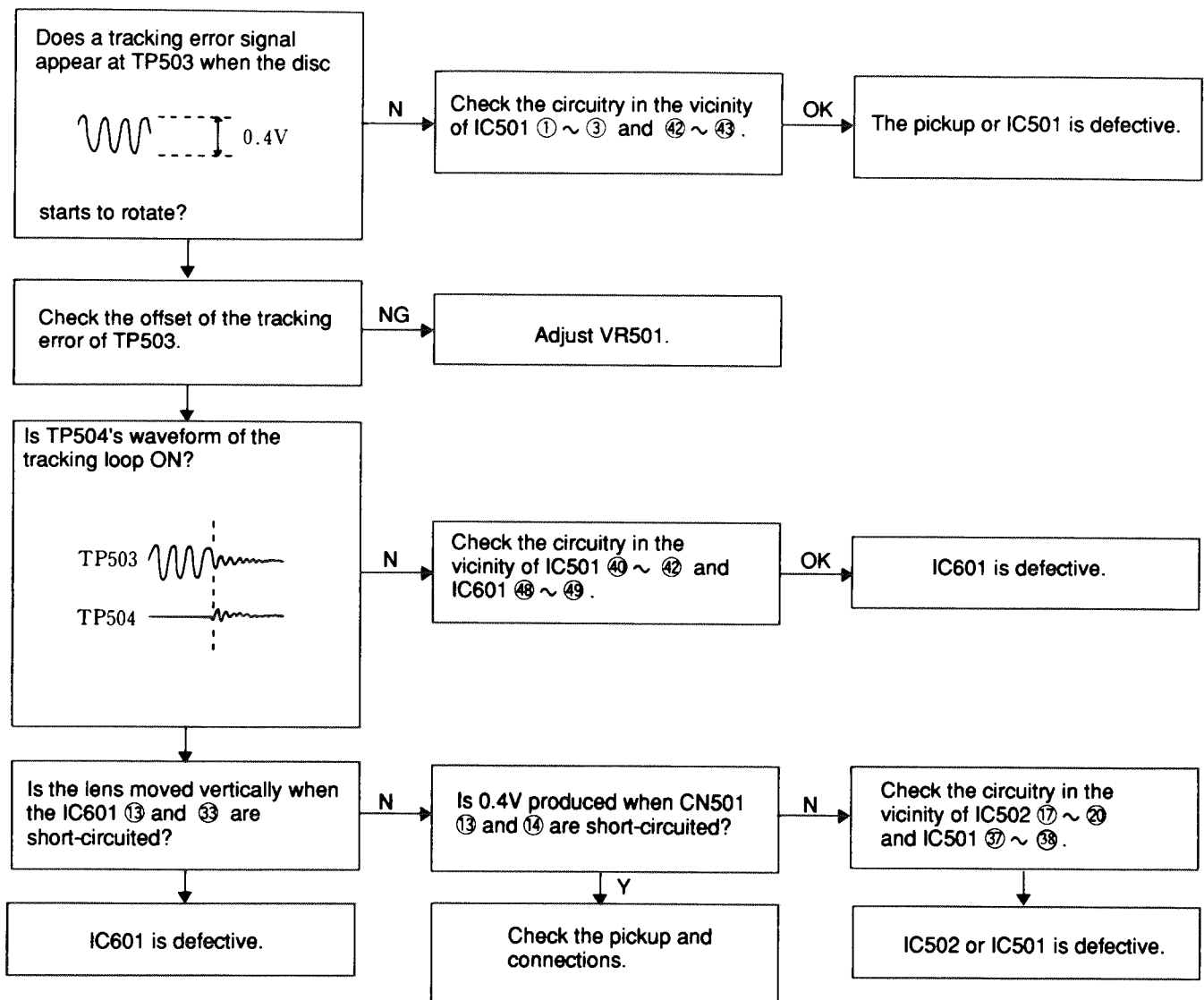
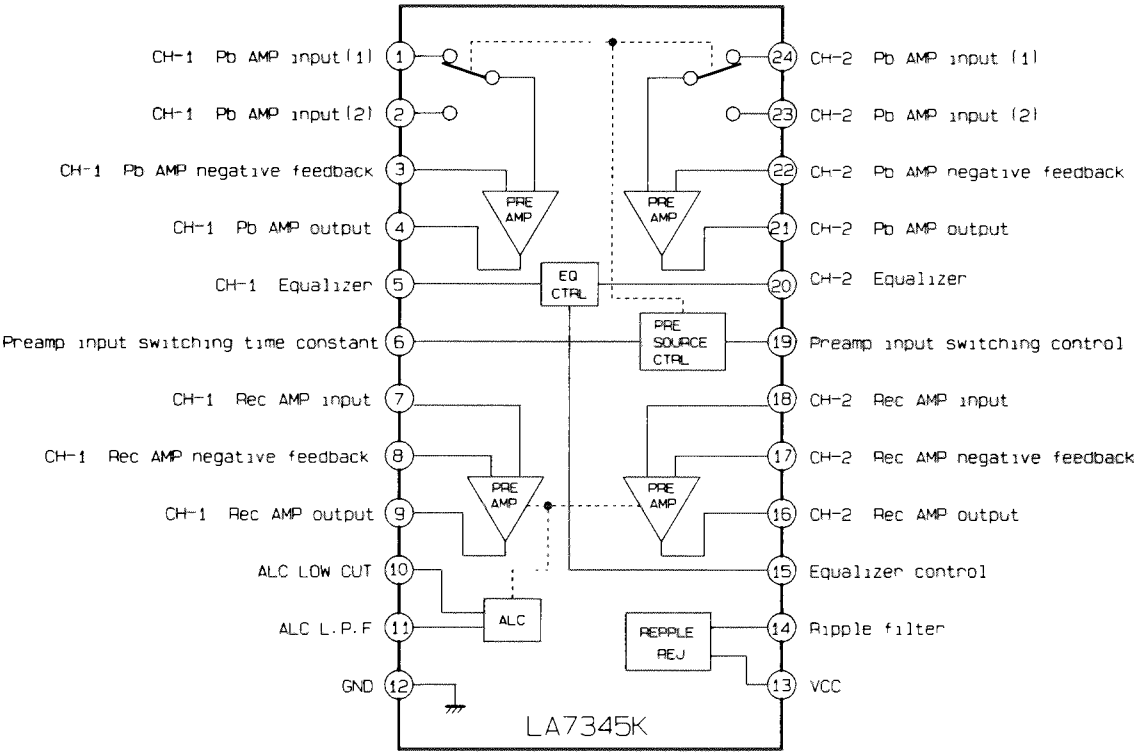


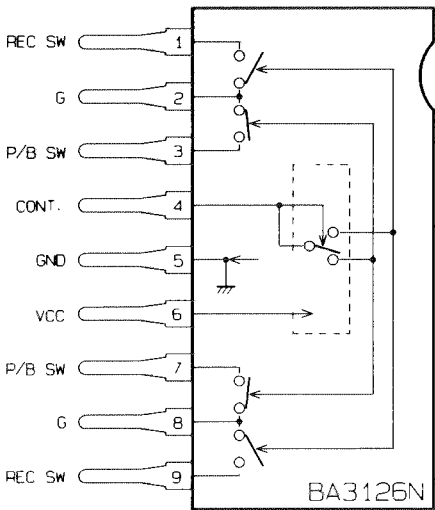
Fig. 5 - 13

6 Block Diagram (Integrated circuit)

ICA31 (AN7345K) PB/REC EQ. amp.

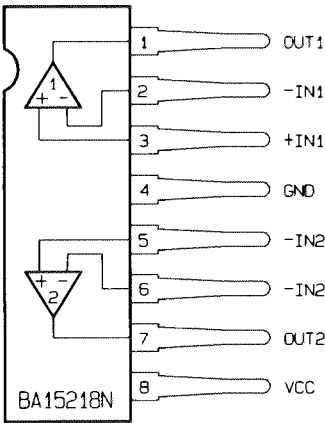


ICA33 (BA3126N) head switch

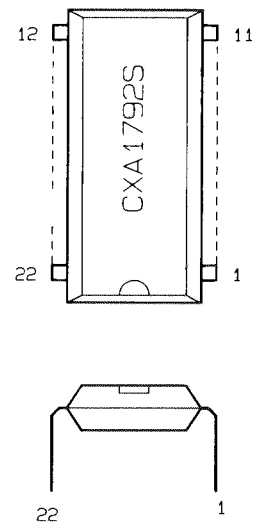
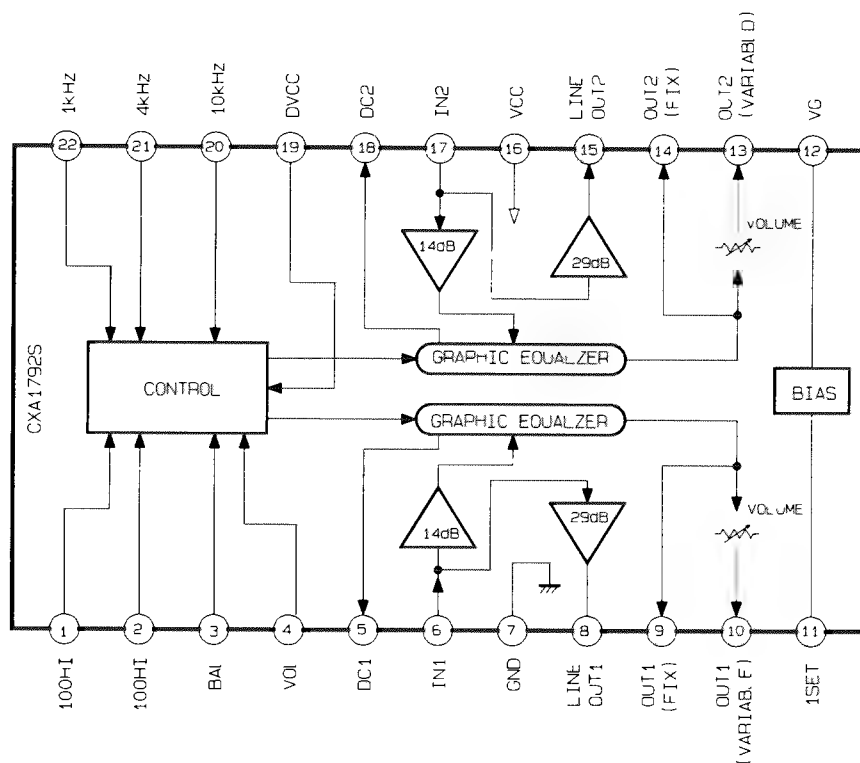


IC301/IC121 (BA15218N)

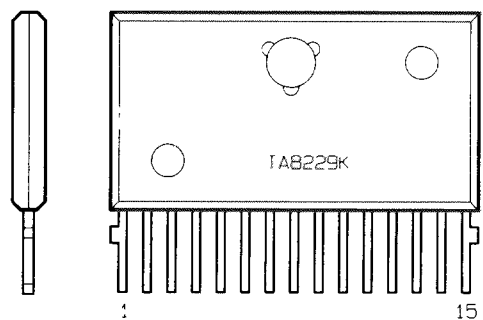
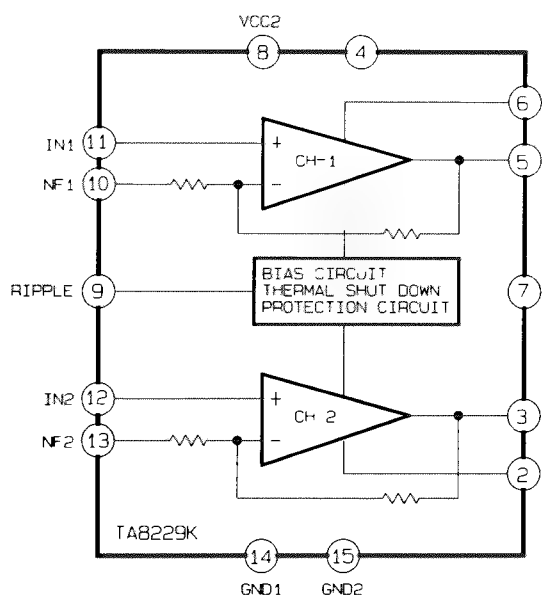
Function/bass boost



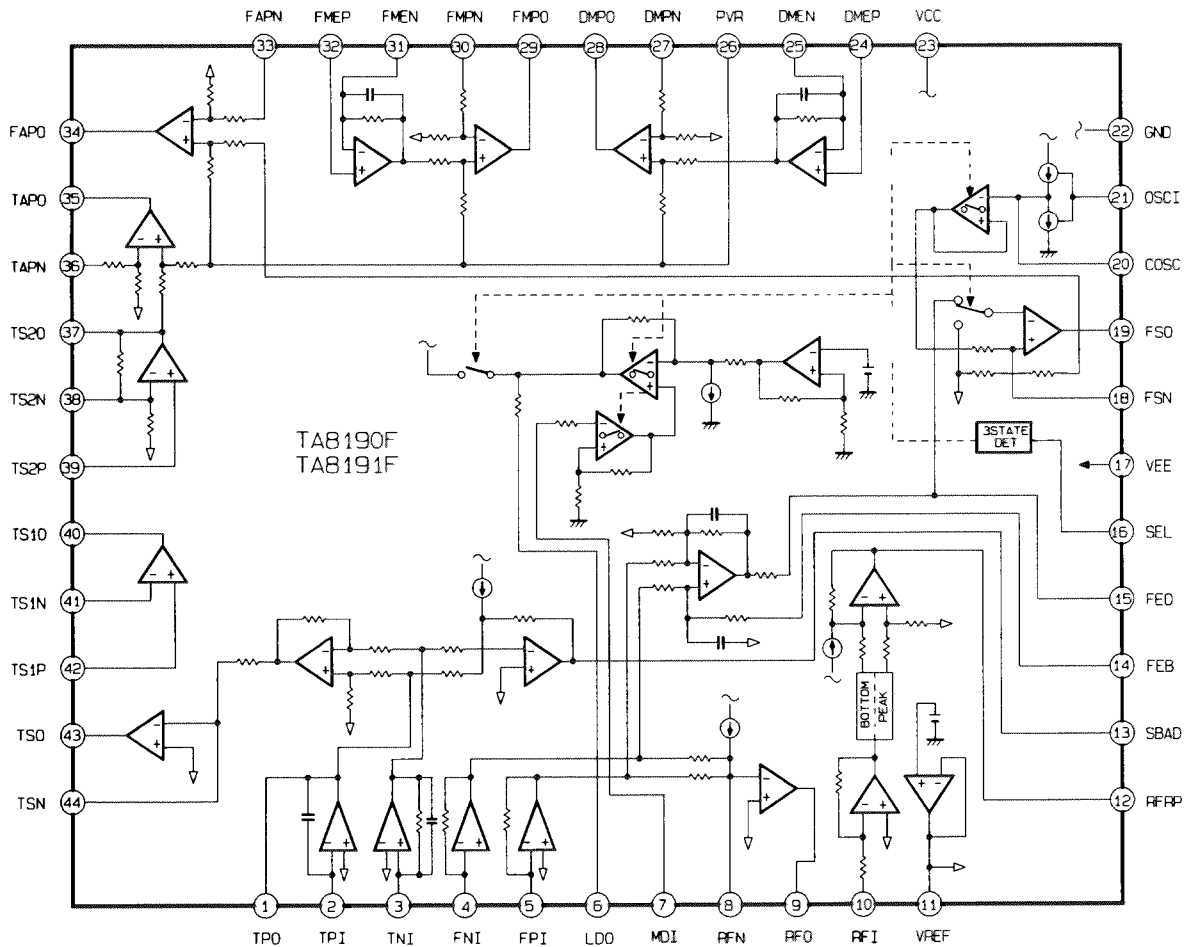
■ IC302 (CXA1792S) tone volume



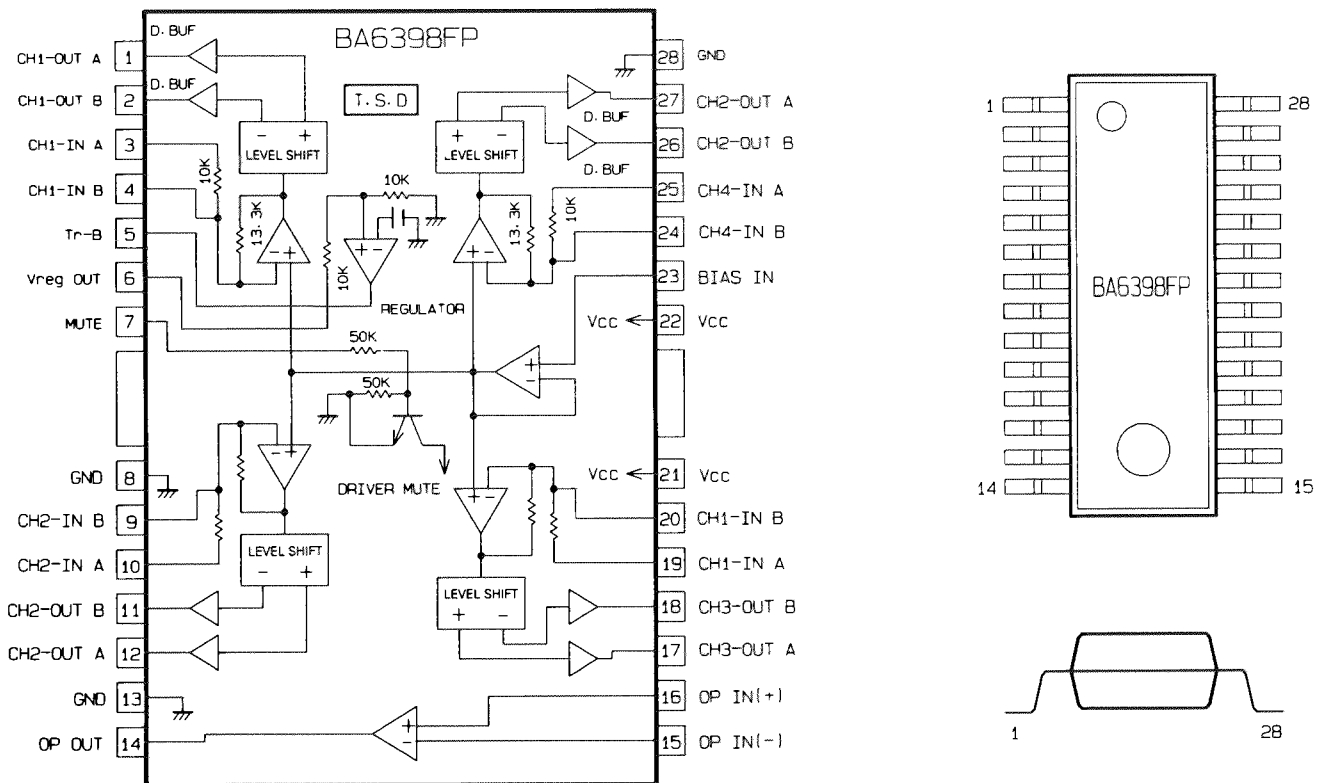
■ IC304 (TA8229K) power amp.



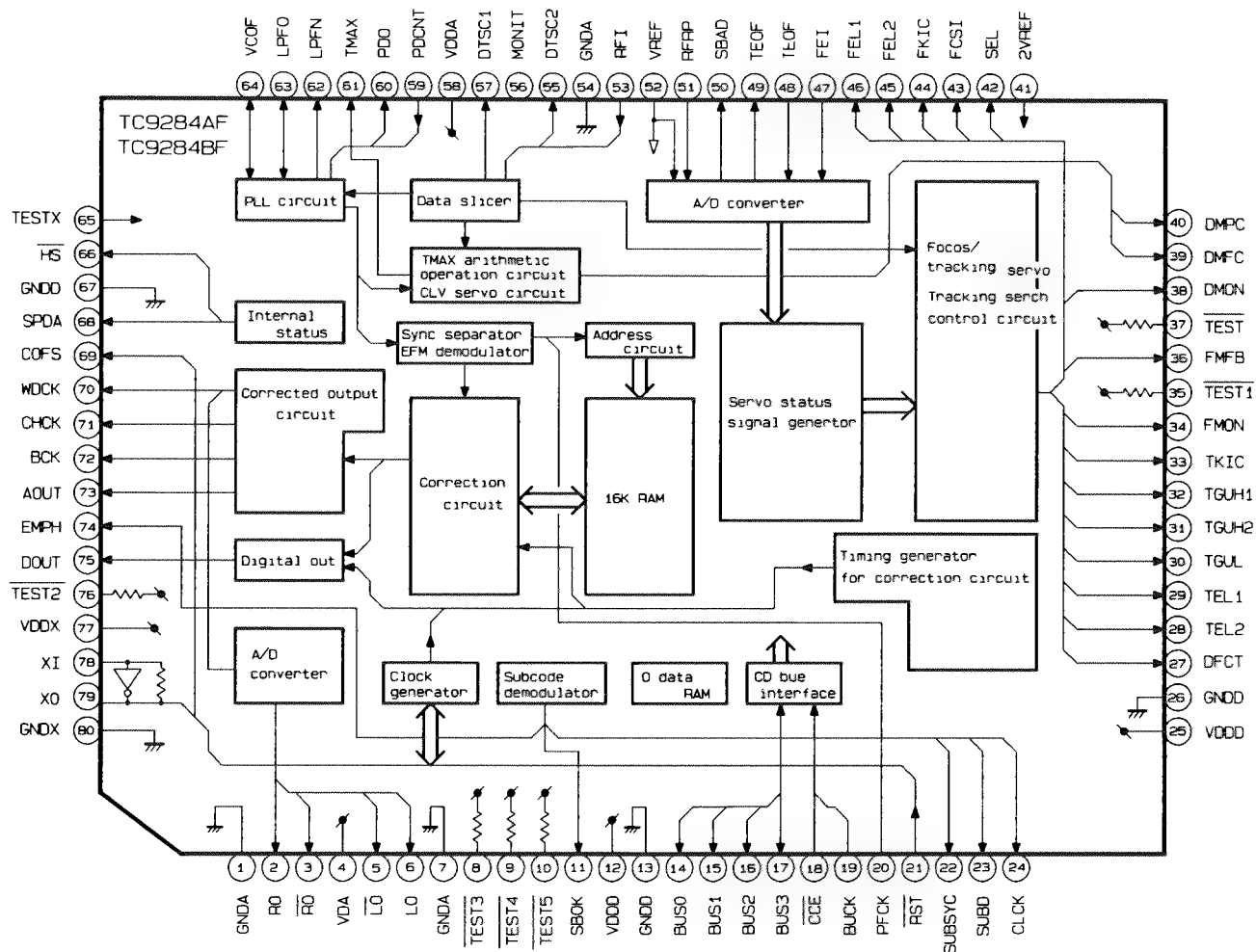
■ IC501 (TA8191F) servo



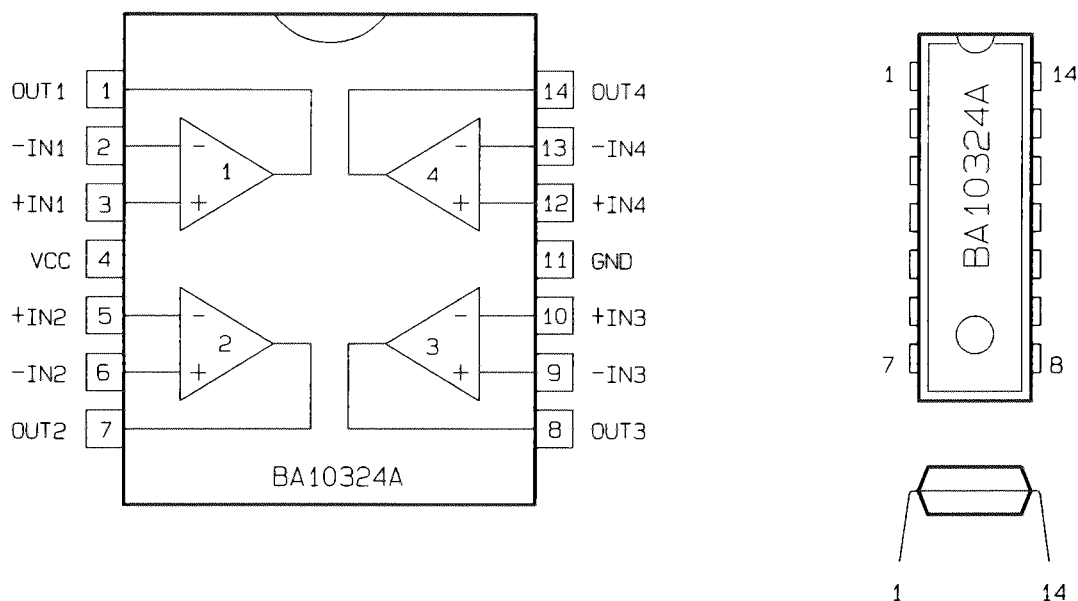
■ IC502 (BA6398FP) power driver



# ■ IC601 (TC9284BF) processor

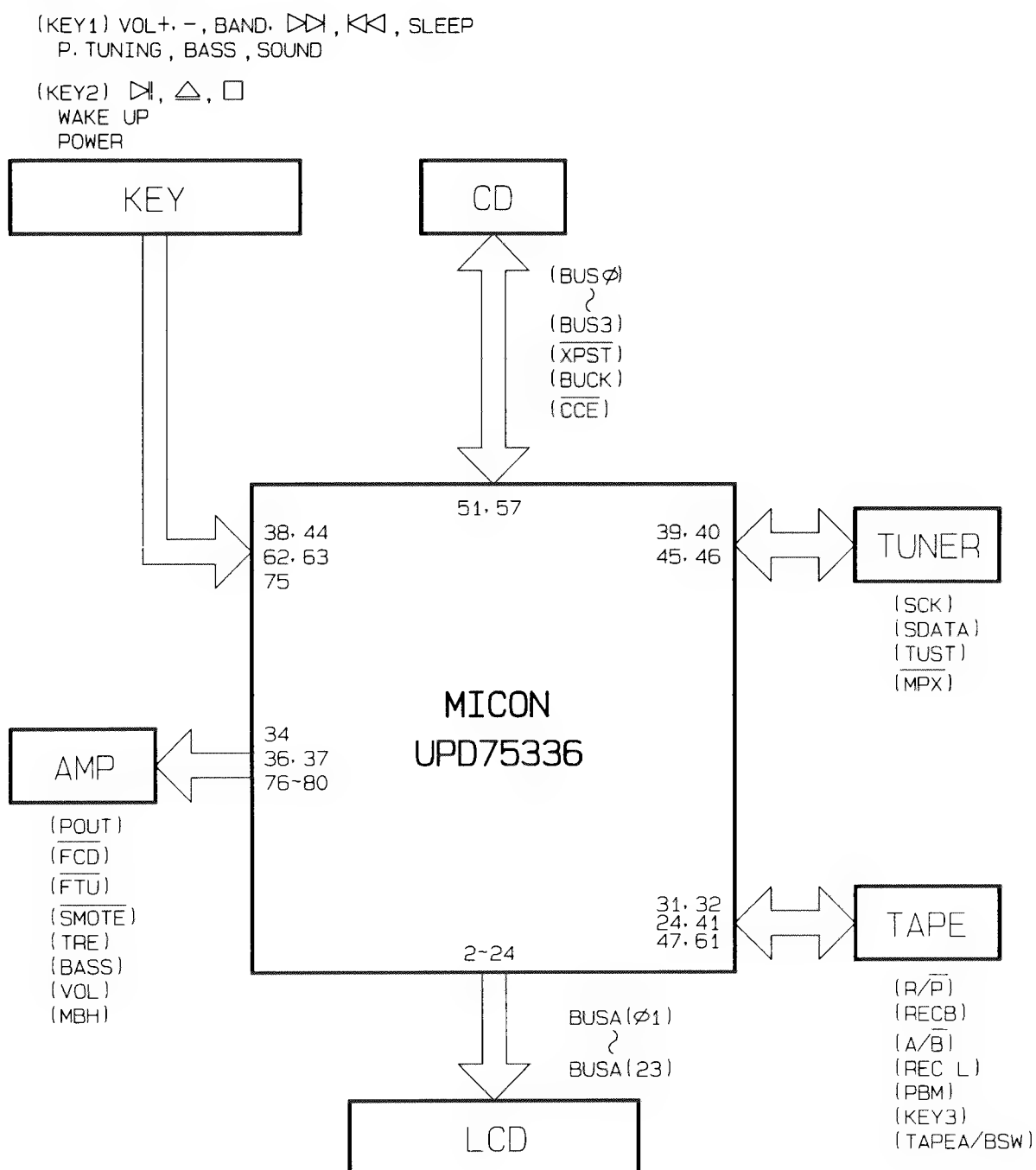


# ■ IC702 (BA10324A) E. volume

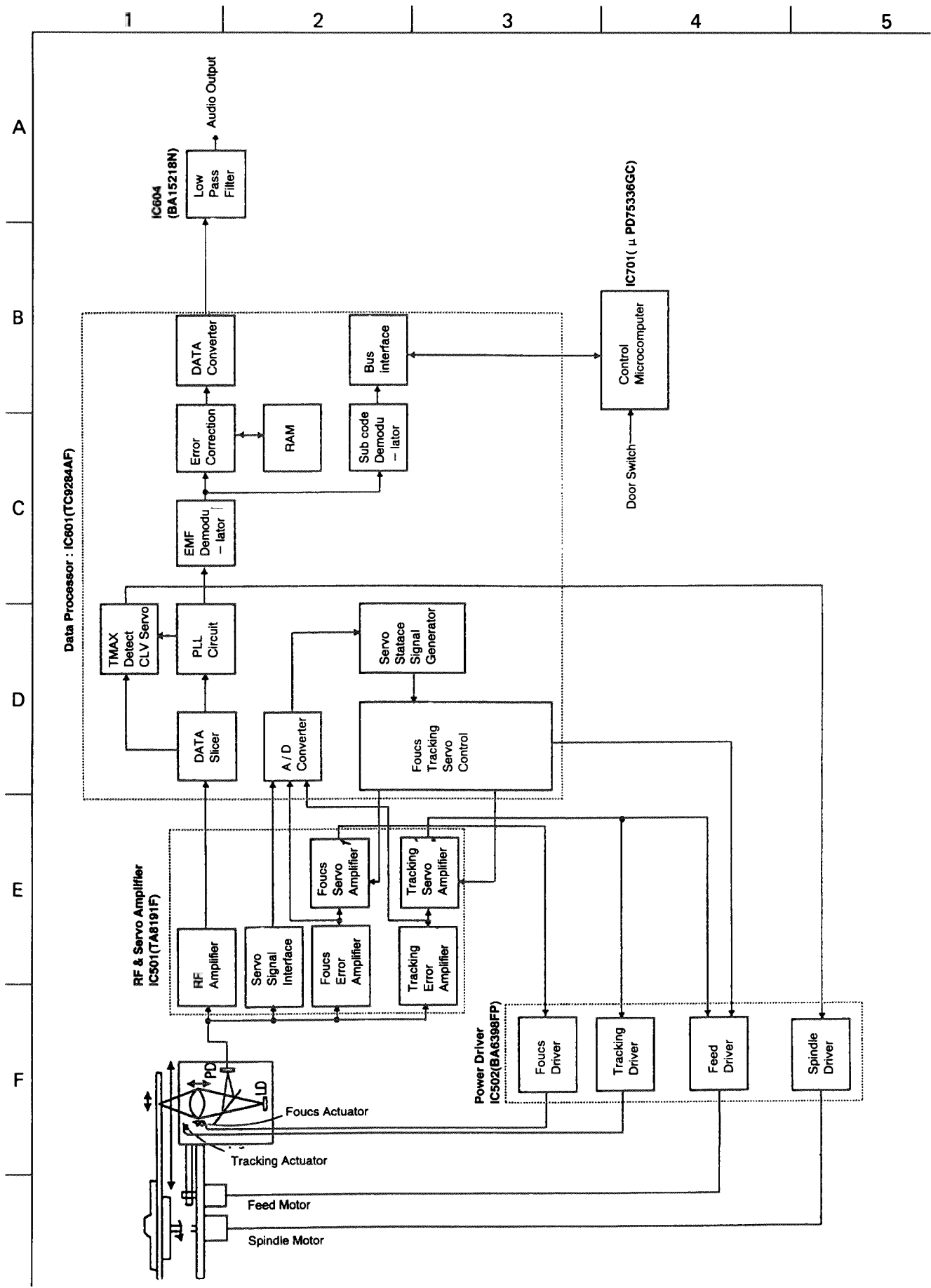


## ■ IC701 (UPD75336GC) system microprocessor

No.	Signal name	I/O	Explanation for this signal	ACT
1		O	LCD SEGMENT	
2	S18 BUSA(01)	O	LCD SEGMENT	
3	S17 BUSA(02)	O	LCD SEGMENT	
4	S16 BUSA(03)	O	LCD SEGMENT	
5	S15 BUSA(04)	O	LCD SEGMENT	
6	S14 BUSA(05)	O	LCD SEGMENT	
7	S13 BUSA(06)	O	LCD SEGMENT	
8	S12 BUSA(07)	O	LCD SEGMENT	
9	S11 BUSA(08)	O	LCD SEGMENT	
10	S10 BUSA(09)	O	LCD SEGMENT	
11	S9 BUSA(10)	O	LCD SEGMENT	
12	S8 BUSA(11)	O	LCD SEGMENT	
13	S7 BUSA(12)	O	LCD SEGMENT	
14	S6 BUSA(13)	O	LCD SEGMENT	
15	S5 BUSA(14)	O	LCD SEGMENT	
16	S4 BUSA(15)	O	LCD SEGMENT	
17	S3 BUSA(16)	O	LCD SEGMENT	
18	S2 BUSA(17)	O	LCD SEGMENT	
19	S1 BUSA(18)	O	LCD SEGMENT	
20	BUSA(19)	O	LCD SEGMENT	
21	COM 0 BUSA(20)	O	LCD COMMON	
22	COM 1 BUSA(21)	O	LCD COMMON	
23	COM 2 BUSA(22)	O	LCD COMMON	
24	COM 3 BUSA(23)	O	LCD COMMON	
25	Lcdb	O	LCD BIAS	
26	VLC 0	—		
27	VLC 1	—		
28	VLC 2	—		
29	MT 0	O	CD TRAY MOTOR CONTROL 0	
30	MT 1	O	CD TRAY MOTOR CONTROL 1	
31	RECB	O	REC BIAS SWITCH	H
32	R/P	O	REC CTL SWITCH	H
33	Vss	—	GND	
34	FTU	O	FUNCTION TUNER SWITCH	L
35	PBM	O	PLAYBACK MUTE	H
36	SMUTE	O	SYSTEM MUTE	L
37	FCD	O	FUNCTION CD SWITCH	L
38	PIN	I	[POWER]KEY INPUT	L
39	SCK	O	SERIAL CLOCK	
40	SDATA	I/O	SERIAL DATA	
41	REC L	I	{REC}SW IN	
42	REM	I	REMOCON IN	
43	WAKE UP	I	WAKW UP SWITCH	L
44	AC/DC	I	AC/DC	L
45	MPX	I	TUNER MPX	L
46	TUST	O	TUNER STROBE	H
47	A/B	O	TAPE A/B CONTROL	H
48	BIAS 1	O	REC BIAS CONTROL 1	H
49	BIAS 2	O	REC BIAS CONTROL 2	H
50	SCD	O	CD SAFETY	H
51	XRST	O	CD LSI RESET	L
52	BUCK	O	CD BUS CLOCK	
53	CCE	O	CD DATA CCE	L
54	BUS 0	I/O	CD DATA BUS 0	
55	BUS 1	I/O	CD DATA BUS 1	
56	BUS 2	I/O	CD DATA BUS 2	
57	BUS 3	I/O	CD DATA BUS 3	
58	BATT	I	BATTERY	
59	SAFETY	I	CD REG SAFETY	
60	DOOR SW	I	CD OPEN / CLOSE / REST SWITCH	
61	KEY 3	I	A PLAY / B PLAY SWITCH	
62	KEY 1	I	TACT KEY 1 / VERSION	
63	KEY 2	I	TACT KEY 2 / VERSION	
64	AVss	—	A GND	
65	AVref	—	A Vdd	
66	Vdd	—	Vdd	
67	XT 1	I	SUB SYSTEM CLOCK	
68	XT 2	O	SUB SYSTEM CLOCK	
69	VDD	—	CONNECT Vdd	
70	OSC 2	I	SYSTEM CLOCK	
71	OSC 1	O	SYSTEM CLOCK	
72	RESET	I	RESET	
73	BEAT	O	MAIN CLOCK SHIFT	L
74	+BCTL	O	A Vref SWITCH	H
75	B.UP	I	BACK UP	
76	TRE	O	PWM	
77	BASS	O	PWM	
78	VOL	O	PWM	
79	MBH	O	BASS SWITCH	H
80	POUT	O	POWER SWITCH	H

**■ PC-X103 system diagram**


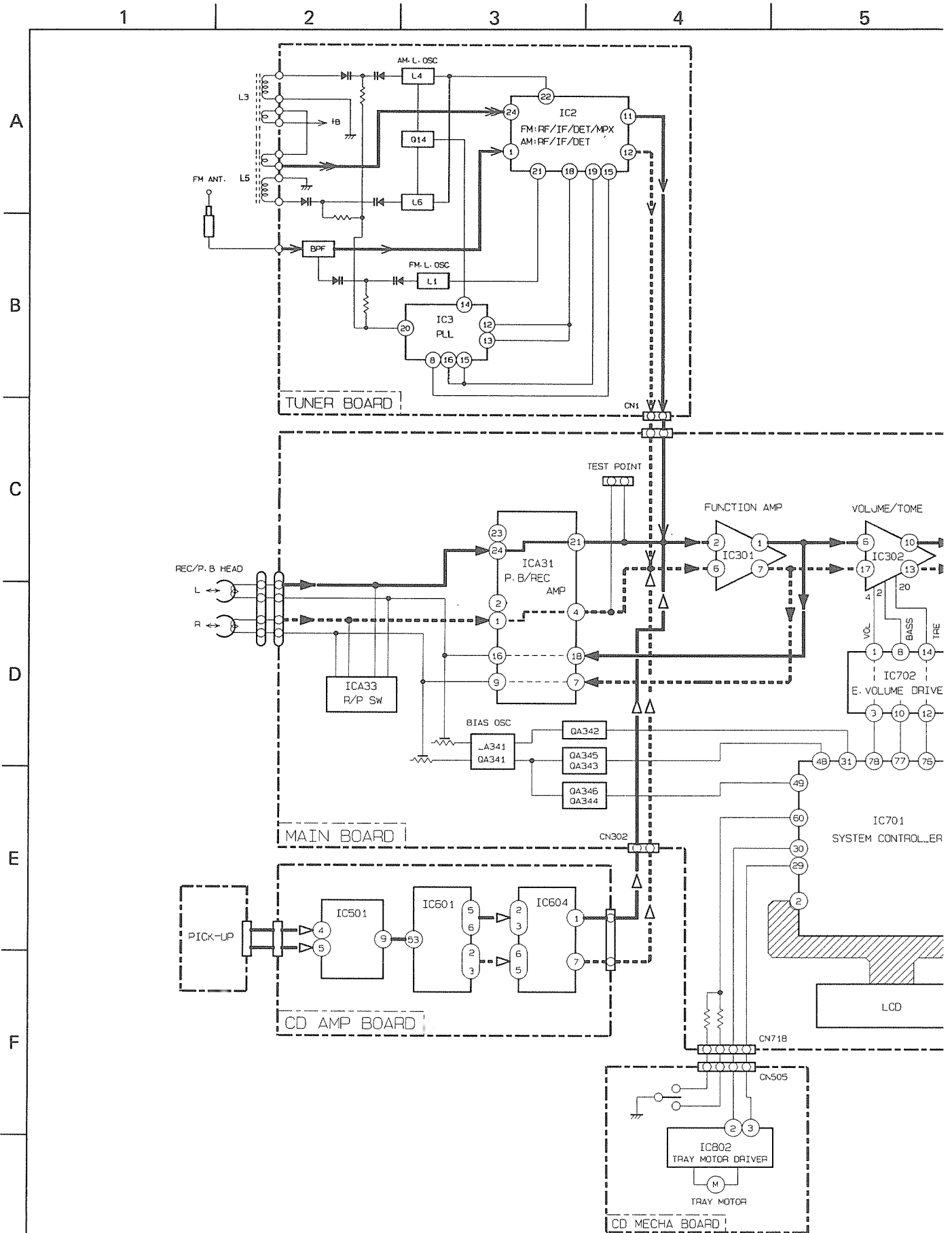
■ CD player diagram







■ PC-X103 signal circuit diagram



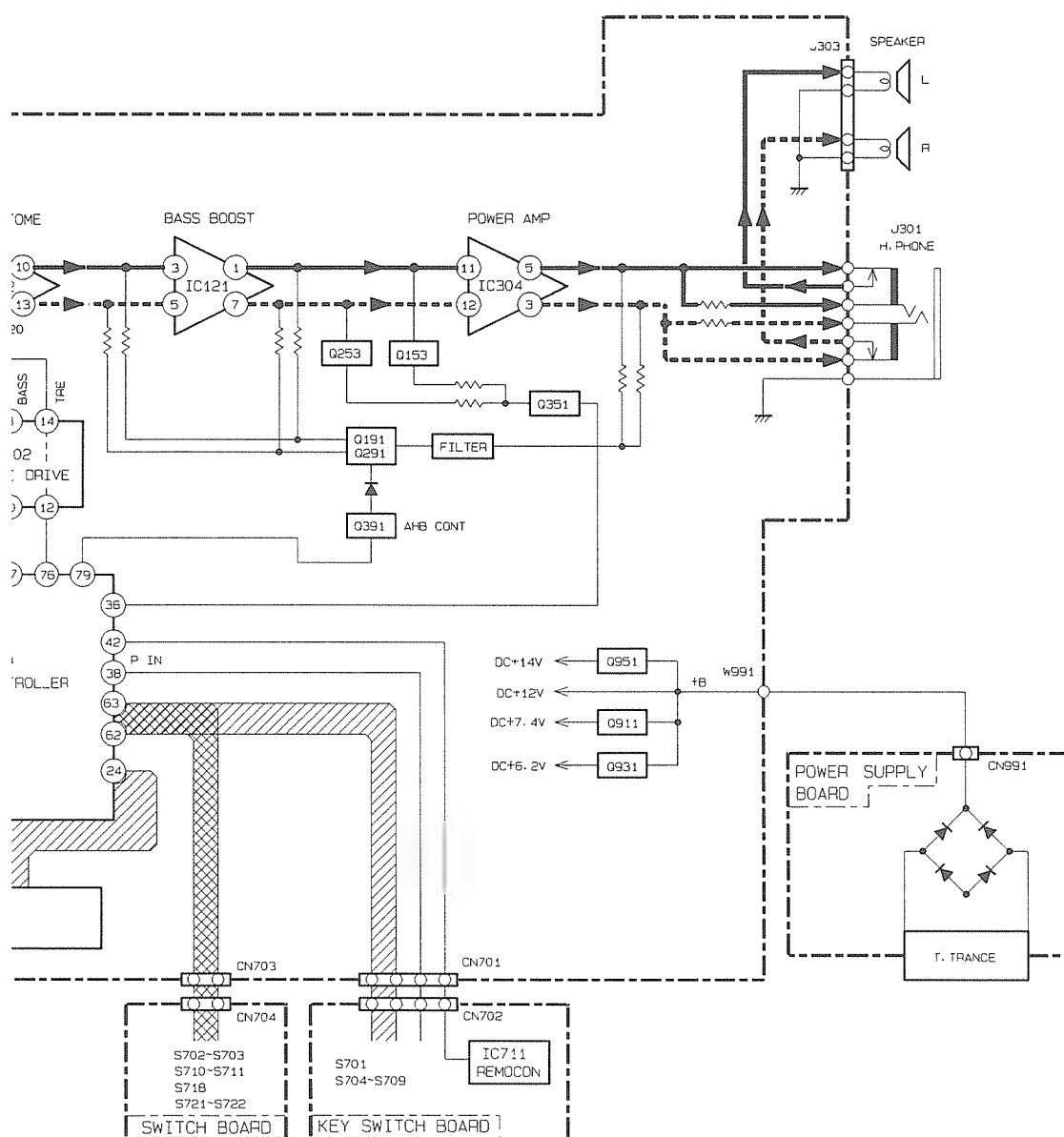
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7

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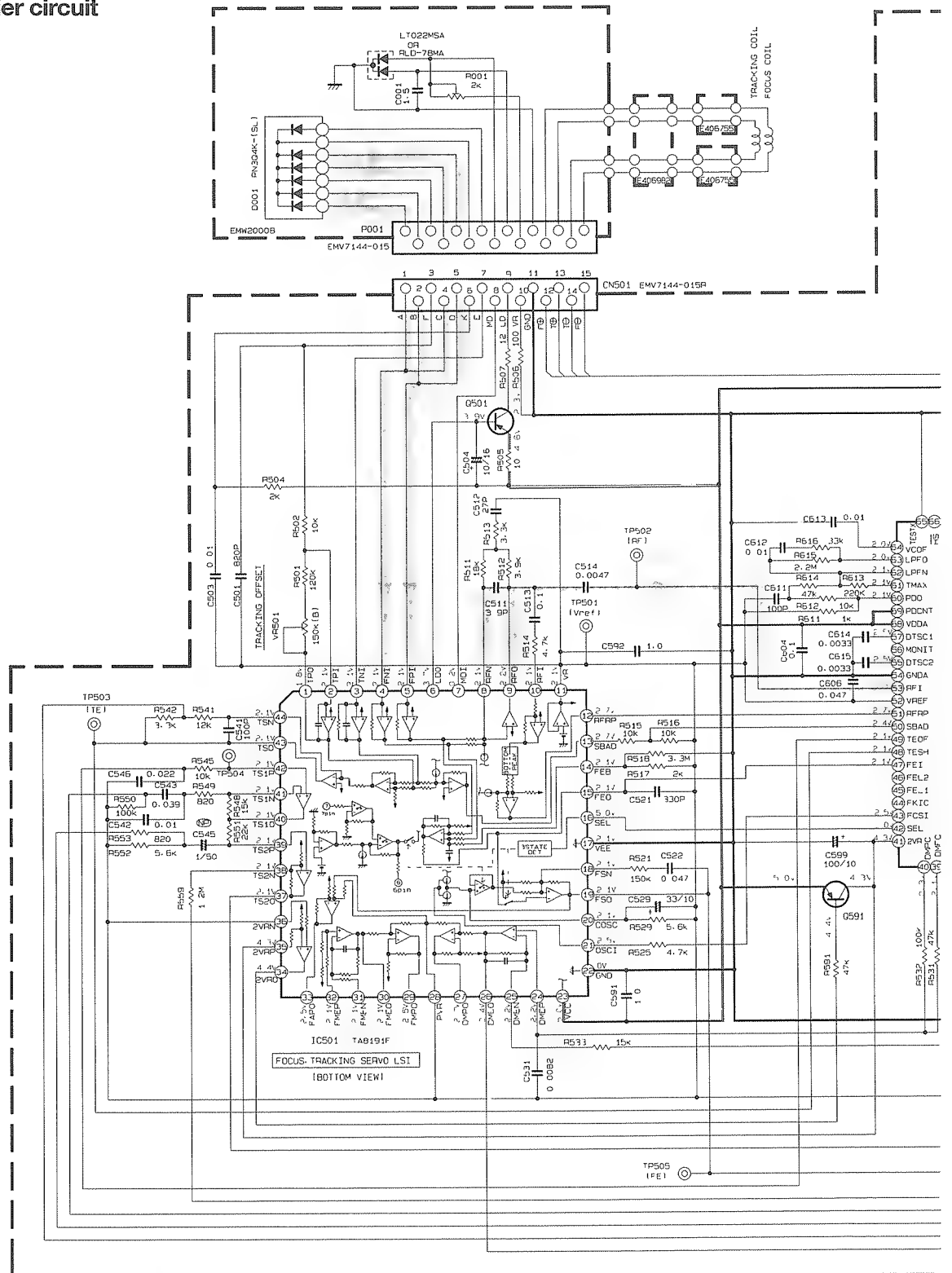
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# 7 Standard Schematic Diagram

## CD amplifier circuit

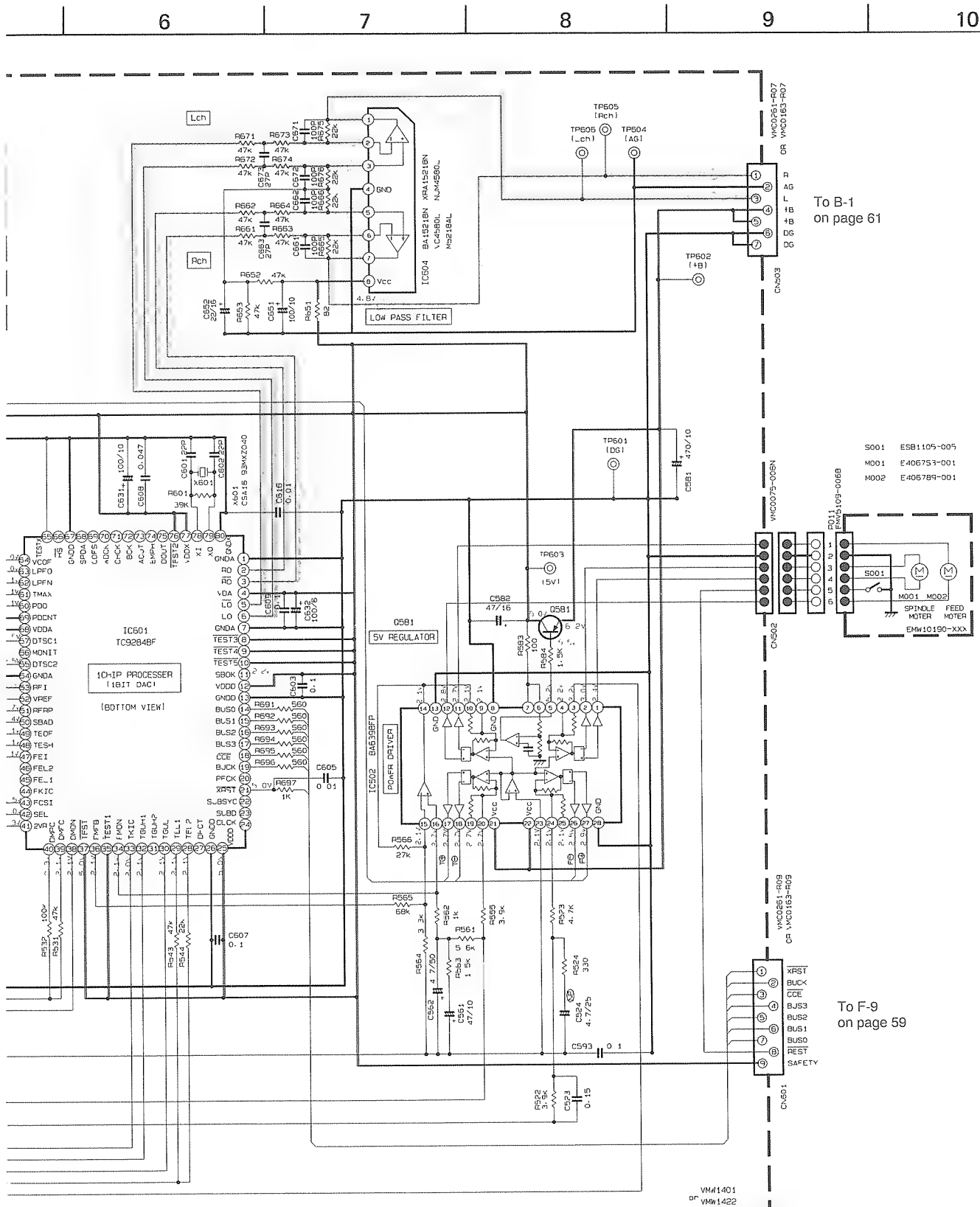


- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER IN PLAYBACK
  2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/5W ±5% CARBON RESISTOR  
ALL RESISTANCE VALUES ARE IN OHM(S)
  - ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR  
ALL CAPACITANCE VALUES ARE IN pF(pF)
  - ALL INDUCTANCE VALUES ARE IN mH(mH)
  - ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (pF)/RATED VOLTAGE (V).

- (R) UNFLAMMABLE CARBON RESISTOR  
 (MF) METAL FILM RESISTOR  
 (OF) OXIDE METAL FILM RESISTOR  
 (L) ±20% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR  
 (NP) NON-POLARISED ELECTROLYTIC CAPACITOR  
 (PP) POLYPROPYLENE CAPACITOR  
 (P) POLYSTYRENE CAPACITOR

Q501	2SA952P(L-K)
Q501	2SA1309(R-S) OR 2SA1175(HFE) OR 2SA9335(RS)

Fig.7-1



To B-1  
on page 61

To F-9  
on page 59

```

L  CD Anologe signal line
R
  CD Digital signal line
+B Line

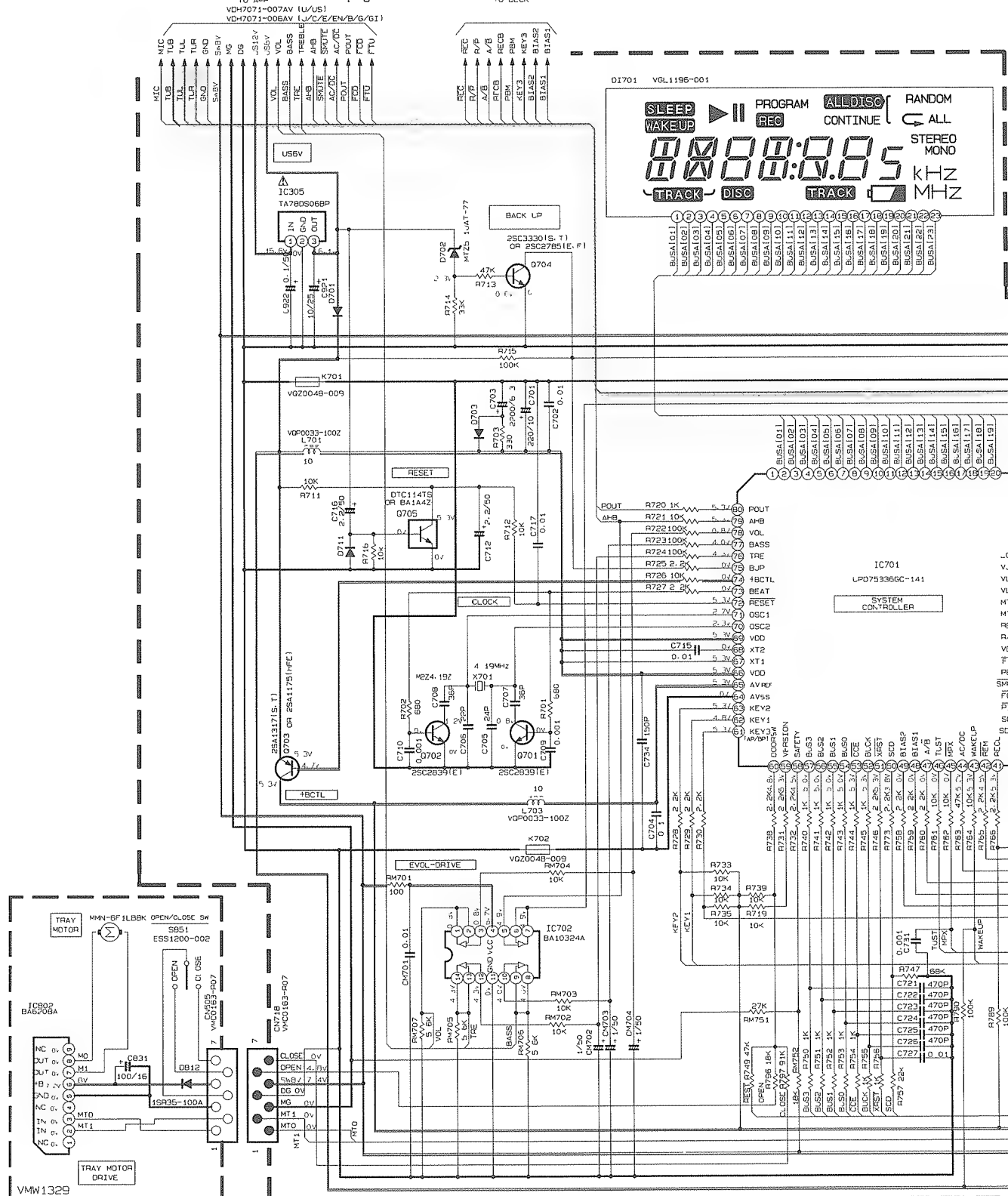
```

# System microprocessor circuit

To G-9 on page 60  
(Fig 7-4)

To F-3 on page 61

TO DECK



## NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL CONDITION — CD MODE. VOL 7: SOUND BEAT
- UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/8W ±5% CARBON RESISTOR
- RESISTANCE VALUES ARE IN OHMS
- CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR
- CAPACITANCE VALUES ARE IN μF (P/P)
- INDUCTANCE VALUES ARE IN mH (P/P)
- E CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V)
- DIOXES ARE 1SS254T OR HSS1041J

- BRACKETS INSIDE VOLTS REFERENCE DATA.
- UNFLAMMABLE CARBON RESISTOR
- METAL FILM RESISTOR
- OXIDE METAL FILM RESISTOR
- 120% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR
- NON-POLARISED ELECTROLYTIC CAPACITOR
- POLYPROPYLENE CAPACITOR
- POLYSTYRENE CAPACITOR

LOCATION	REF ID	VERSION	E/EN/B/G/61	U/US-9K	U/
18-G	RM733	6K		10K	
18-B	DM722	SLR-14MCF25			
18-B	RM722	J30			

Note:VDH7071006SV

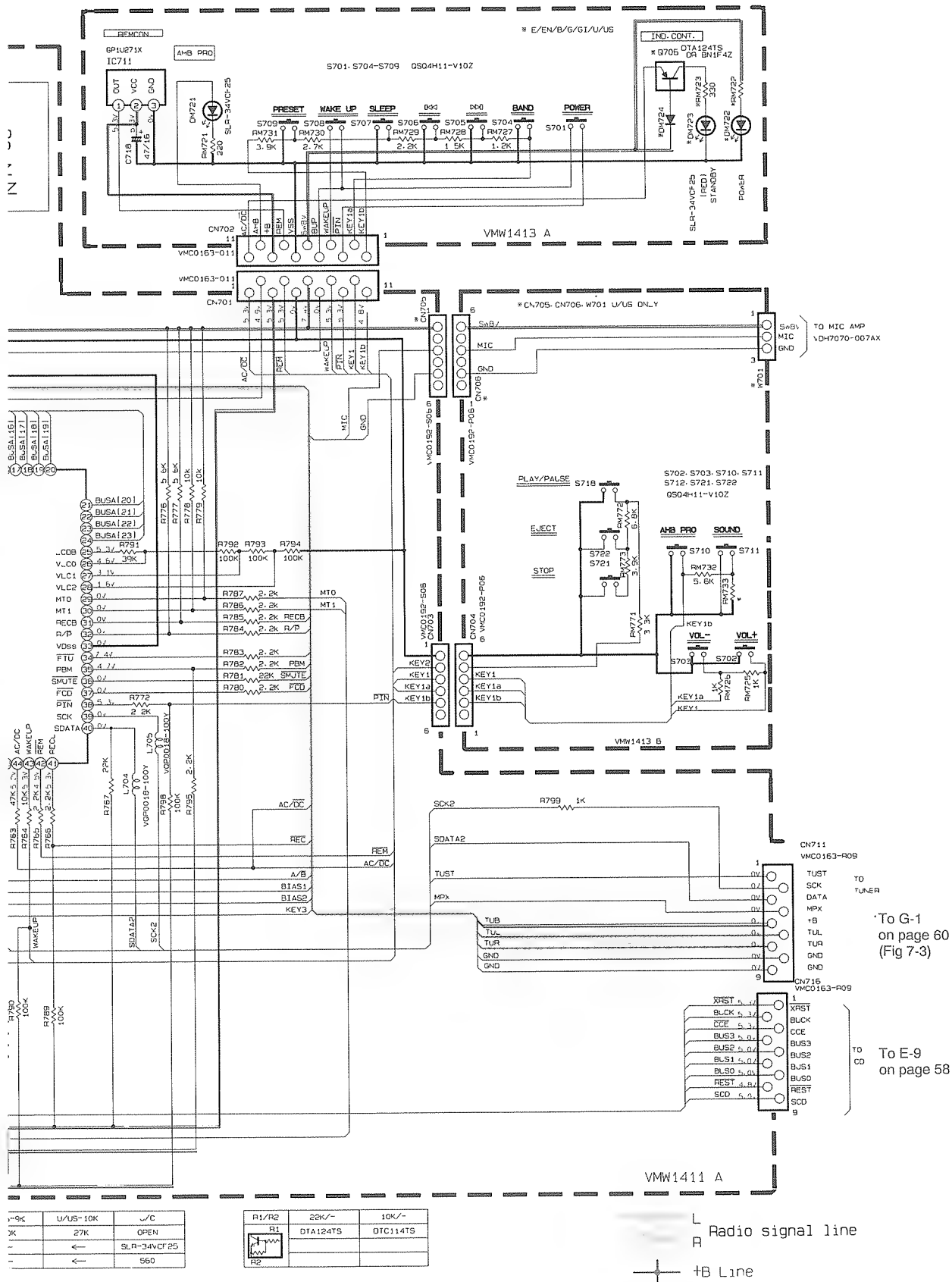


Fig. 7 - 2

## ■ Tuner circuit

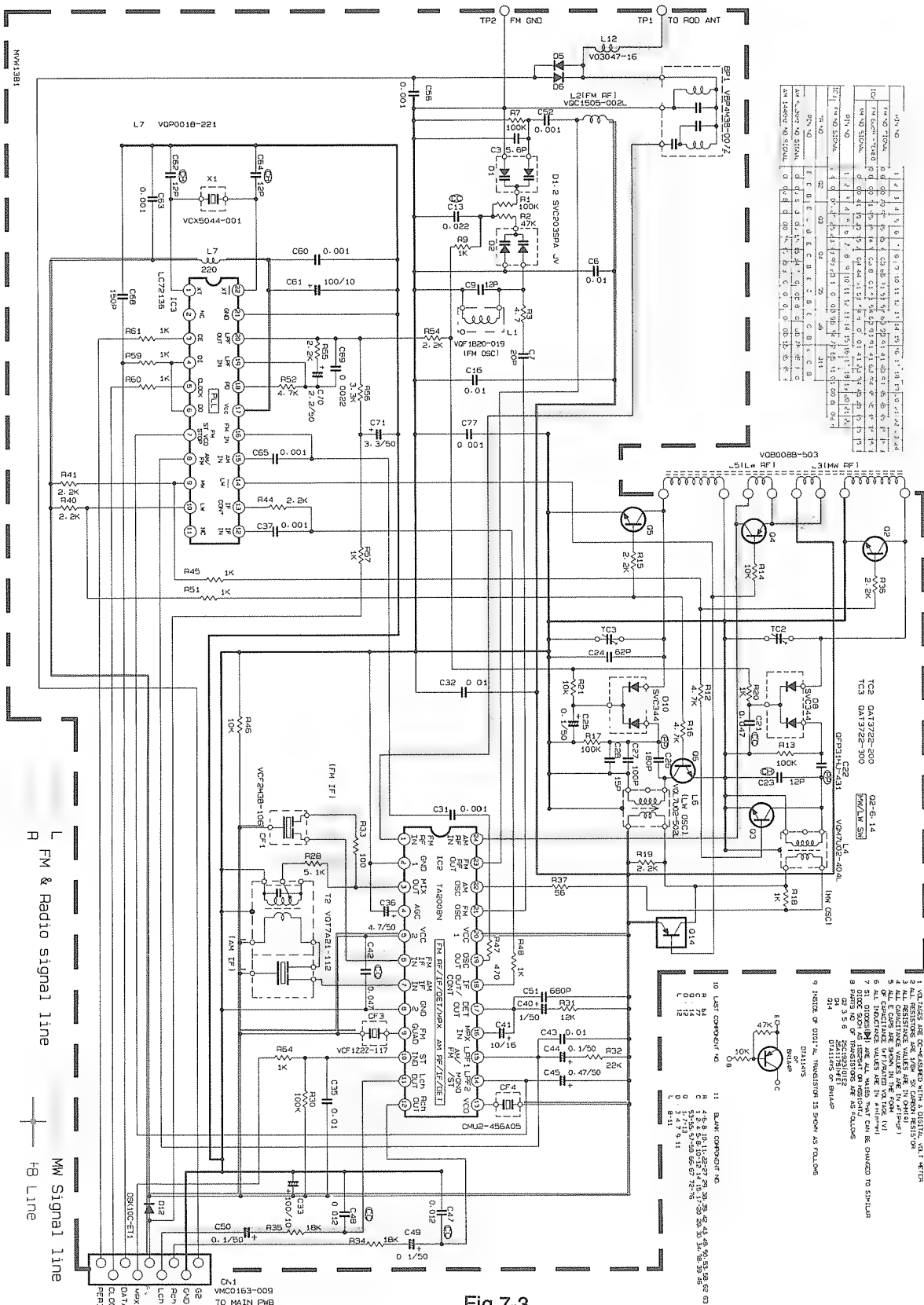


Fig.7-3

Note : VDH7071005TW



## ■ Cassette amplifier circuit

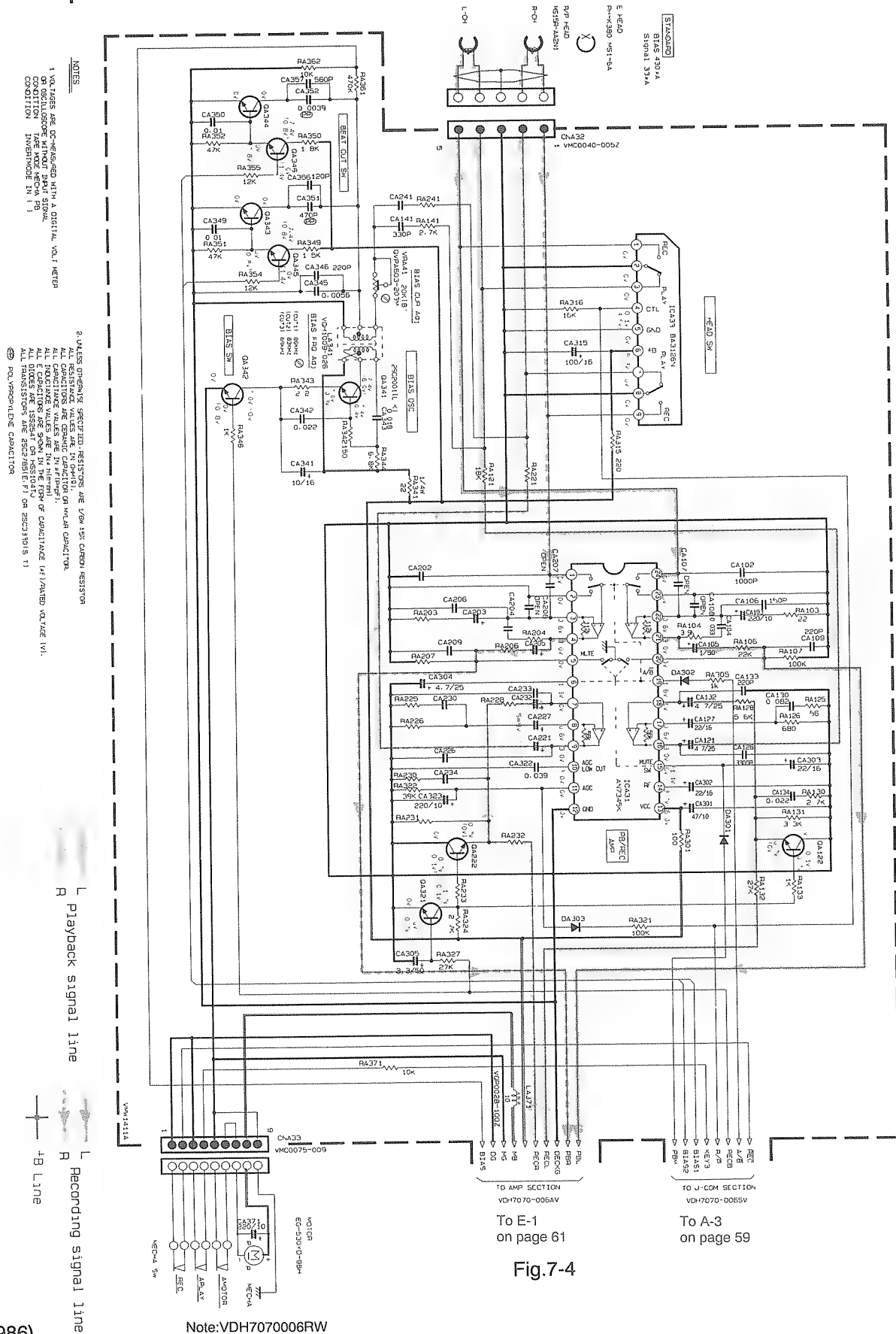
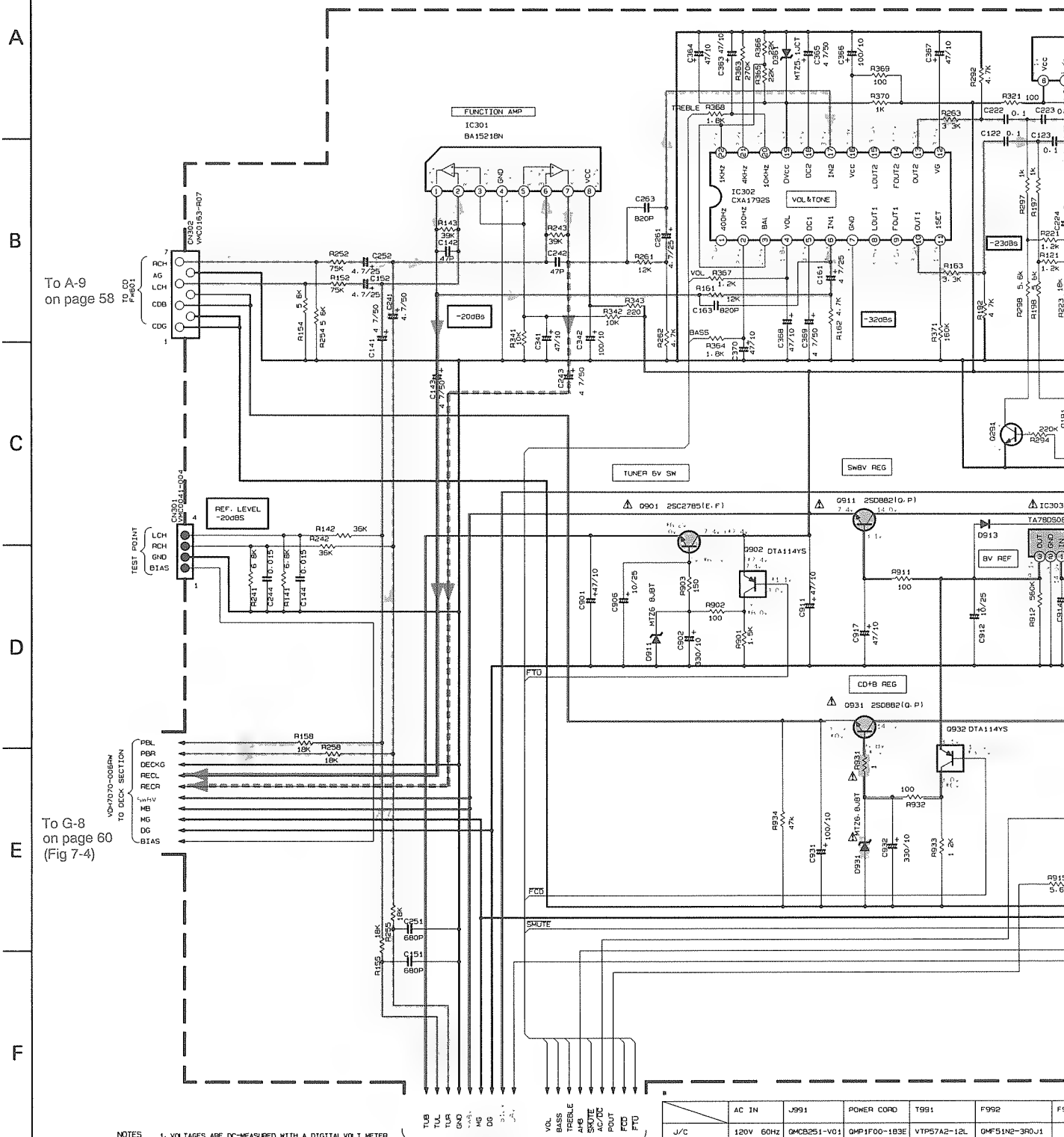


Fig.7-4

### ■ Power amplifier/power supply circuit



## NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER  
OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION — CD STOP MODE AT AC SUPPLY  
1 J 2 INVERT MODE VOL 1.5 SOUND MODE FLAT AND PRO-ON TO ACOM SECTION  
VDH-071-0065V
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/8W 1% CARBON RESISTOR.  
ALL RESISTANCE VALUES ARE IN OHMS (Ω)  
ALL CAPACITORS ARE CERAMIC, POLYESTER OR MYLAR CAPACITOR  
ALL CAPACITANCE VALUES ARE IN PICOPICT (pF) (P)  
ALL INDUCTANCE VALUES ARE IN ANTIHENA (H)  
E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (nF)/RATED VOLTAGE (V).  
ALL DIODES ARE 1SS854T OR H51514T  
ALL TRANSISTORS ARE 2N5670T, E1 OR 2SC3330 (S.T.).
- A-2  
on page 5

To A-2  
on page 59

	AC IN	J991	POWER CORD	T991	P992	F991
J/C	120V 60Hz	QMC2B51-V01	GMP1F00-1B3E	VTP57A2-12L	QMF51N2-3R0J1 3A/250V	QMF51N2-3R0J1
E/EN/B/G/GI	230V 50Hz	QMC0263-004	GMP39F0-1B3E	VTP57J2-12B	QMF51E2-2R5J1 12.5A	QMF51E2-2R5J1
B	↑	↑	GMP5520-1B3E	↑	↑	↑

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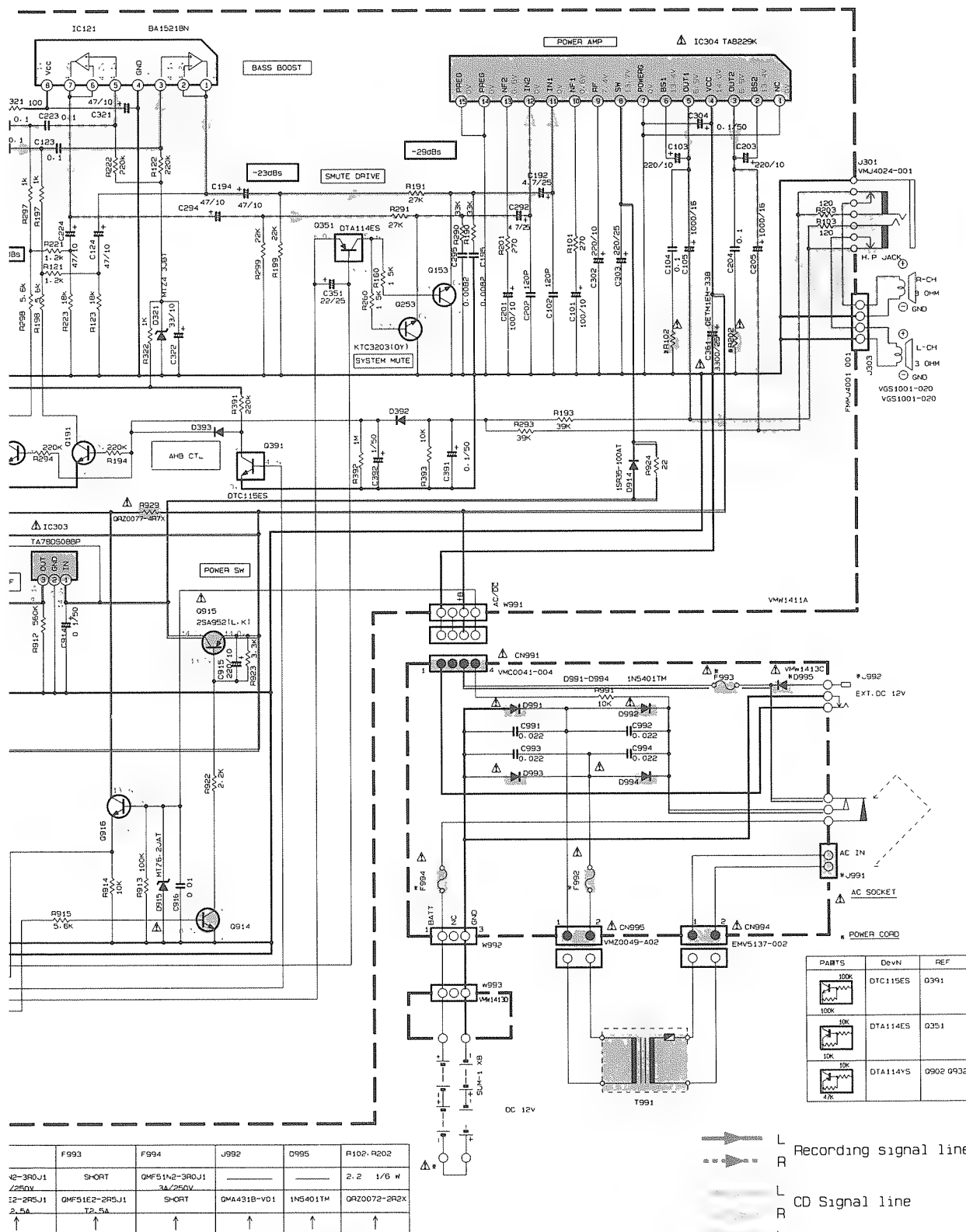
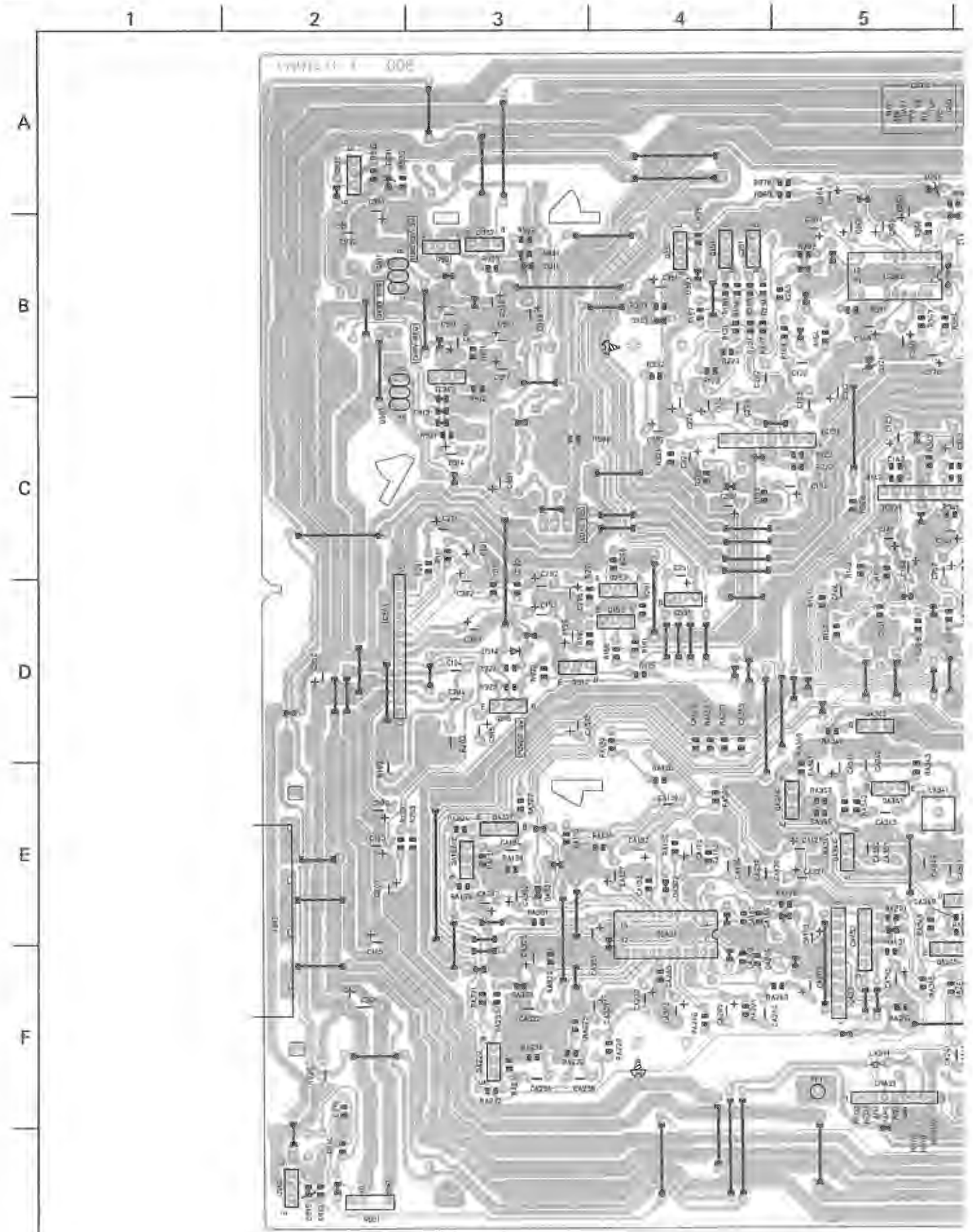


Fig. 7-5

△ Parts are safety assurance parts.  
When replacing those parts make  
sure to use the specified one.

# 8 Location of P.C. Board Parts and Parts List

■ Main board



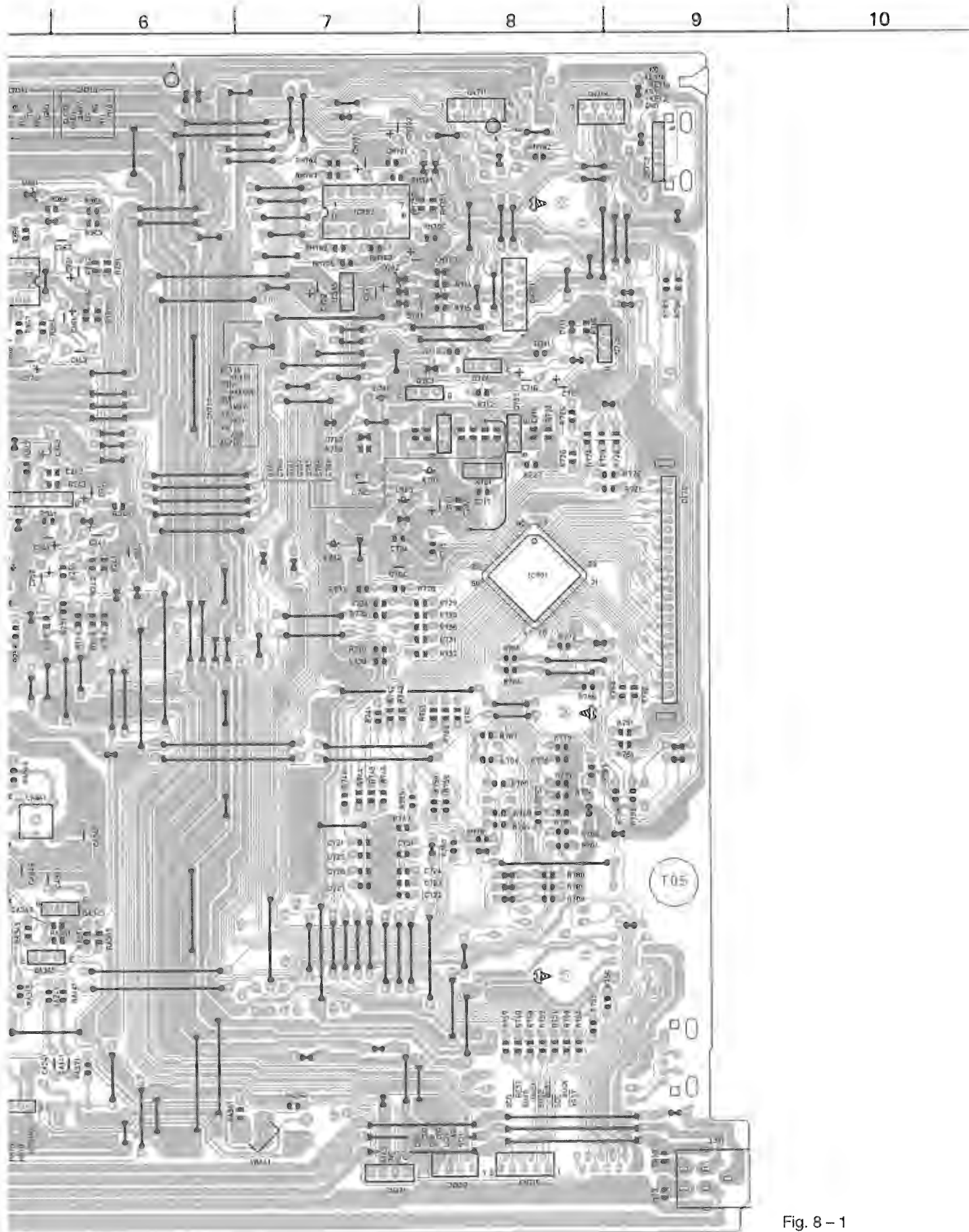


Fig. 8 - 1



## ●Main board parts list

BLOCK NO. 01					BLOCK NO. 02				
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 391	QET41HM-1042N	E-CAPACITOR	1.0MF 20X 50V		C 391	QET41HM-1042N	E-CAPACITOR	1.0MF 20X 50V	
C 392	QET41HM-105	E-CAPACITOR	1.0MF 20X 50V		C 392	QET41HM-105	E-CAPACITOR	1.0MF 20X 50V	
C 701	QET41AM-227	E-CAPACITOR	220MF 20X 10V		C 701	QET41AM-227	E-CAPACITOR	220MF 20X 10V	
C 702	QCVB1CM-103Y	E-CAPACITOR	1.0MF 5X 50V		C 702	QCVB1CM-103Y	E-CAPACITOR	1.0MF 5X 50V	
C 703	QETMOJM-228	E-CAPACITOR	2200MF 20X 6.3V		C 703	QETMOJM-228	E-CAPACITOR	2200MF 20X 6.3V	
C 704	QFLC1HJ-1042M	M-CAPACITOR	1.0MF 5X 50V		C 704	QFLC1HJ-1042M	M-CAPACITOR	1.0MF 5X 50V	
C 705	QCS11HJ-240	C-CAPACITOR	CLOCK		C 705	QCS11HJ-240	C-CAPACITOR	CLOCK	
C 706	QCS11HJ-220	C-CAPACITOR	CLOCK		C 706	QCS11HJ-220	C-CAPACITOR	CLOCK	
C 707	QCS11HJ-360	C-CAPACITOR	CLOCK		C 707	QCS11HJ-360	C-CAPACITOR	CLOCK	
C 708	QCS11HJ-360	C-CAPACITOR	CLOCK		C 708	QCS11HJ-360	C-CAPACITOR	CLOCK	
C 709	QCBBIHK-102Y	C-CAPACITOR	CLOCK		C 709	QCBBIHK-102Y	C-CAPACITOR	CLOCK	
C 710	QCBBIHK-102Y	C-CAPACITOR	CLOCK		C 710	QCBBIHK-102Y	C-CAPACITOR	CLOCK	
C 712	QETC1HM-2252N	E-CAPACITOR	2.2MF 20X 50V		C 712	QETC1HM-2252N	E-CAPACITOR	2.2MF 20X 50V	
C 715	QCVB1CM-103Y	E-CAPACITOR	XT2		C 715	QCVB1CM-103Y	E-CAPACITOR	XT2	
C 716	QETC1HM-2252N	E-CAPACITOR	RESET		C 716	QETC1HM-2252N	E-CAPACITOR	RESET	
C 717	QCVB1CM-103Y	C-CAPACITOR	RESET		C 717	QCVB1CM-103Y	C-CAPACITOR	RESET	
C 721	QCBBIHK-471Y	C-CAPACITOR	470PF 10X 50V		C 721	QCBBIHK-471Y	C-CAPACITOR	470PF 10X 50V	
C 722	QCBBIHK-471Y	C-CAPACITOR	470PF 10X 50V		C 722	QCBBIHK-471Y	C-CAPACITOR	470PF 10X 50V	
C 723	QCBBIHK-471Y	C-CAPACITOR	470PF 10X 50V		C 723	QCBBIHK-471Y	C-CAPACITOR	470PF 10X 50V	
C 724	QCBBIHK-471Y	C-CAPACITOR	470PF 10X 50V		C 724	QCBBIHK-471Y	C-CAPACITOR	470PF 10X 50V	
C 725	QCBBIHK-471Y	C-CAPACITOR	470PF 10X 50V		C 725	QCBBIHK-471Y	C-CAPACITOR	470PF 10X 50V	
C 726	QCBBIHK-471Y	C-CAPACITOR	470PF 10X 50V		C 726	QCBBIHK-471Y	C-CAPACITOR	470PF 10X 50V	
C 727	QCVB1CM-103Y	C-CAPACITOR	1.0MF 20X 16V		C 727	QCVB1CM-103Y	C-CAPACITOR	1.0MF 20X 16V	
C 734	QCBBIHK-151Y	E-CAPACITOR	150PF 10X 50V		C 734	QCBBIHK-151Y	E-CAPACITOR	150PF 10X 50V	
C 901	QET41AM-476	E-CAPACITOR	47MF 20X 10V		C 901	QET41AM-476	E-CAPACITOR	47MF 20X 10V	
C 902	QETC1AM-3372N	E-CAPACITOR	330MF 20X 10V		C 902	QETC1AM-3372N	E-CAPACITOR	330MF 20X 10V	
C 906	QET41EM-106	E-CAPACITOR	10MF 20X 25V		C 906	QET41EM-106	E-CAPACITOR	10MF 20X 25V	
C 911	QET41AM-476	E-CAPACITOR	47MF 20X 10V		C 911	QET41AM-476	E-CAPACITOR	47MF 20X 10V	
C 912	QET41EM-106	E-CAPACITOR	DECAP		C 912	QET41EM-106	E-CAPACITOR	DECAP	
C 914	QZ0205-155	ML-C-CAPACITOR	PULSE		C 914	QZ0205-155	ML-C-CAPACITOR	PULSE	
C 915	QET41AM-227	E-CAPACITOR	P SW		C 915	QET41AM-227	E-CAPACITOR	P SW	
C 916	QCVB1CM-103Y	E-CAPACITOR	1.0MF 20X 16V		C 916	QCVB1CM-103Y	E-CAPACITOR	1.0MF 20X 16V	
C 917	QET41AM-476	E-CAPACITOR	47MF 20X 10V		C 917	QET41AM-476	E-CAPACITOR	47MF 20X 10V	
C 921	QET41AM-476	E-CAPACITOR	47MF 20X 10V		C 921	QET41AM-476	E-CAPACITOR	47MF 20X 10V	
C 922	QZ0205-155	ML-C-CAPACITOR	1.5MF		C 922	QZ0205-155	ML-C-CAPACITOR	1.5MF	
C 931	QET41AM-107	E-CAPACITOR	100MF 20X 10V		C 931	QET41AM-107	E-CAPACITOR	100MF 20X 10V	
C 932	QETC1AM-3372N	E-CAPACITOR	330MF 20X 10V		C 932	QETC1AM-3372N	E-CAPACITOR	330MF 20X 10V	
CA102	QCBBIHK-102Y	E-CAPACITOR	1000PF 10X 50V		CA102	QCBBIHK-102Y	E-CAPACITOR	1000PF 10X 50V	
CA103	QET41AM-227	E-CAPACITOR	220MF 20X 10V		CA103	QET41AM-227	E-CAPACITOR	220MF 20X 10V	
CA104	QFLC1HJ-3332M	M-CAPACITOR	1.0MF 5X 50V		CA104	QFLC1HJ-3332M	M-CAPACITOR	1.0MF 5X 50V	
CA105	QET41HM-105	E-CAPACITOR	1.0MF 20X 50V		CA105	QET41HM-105	E-CAPACITOR	1.0MF 20X 50V	
CA106	QCBBIHK-151Y	E-CAPACITOR	150PF 10X 50V		CA106	QCBBIHK-151Y	E-CAPACITOR	150PF 10X 50V	
CA109	QCBBIHK-221Y	E-CAPACITOR	220PF 10X 50V		CA109	QCBBIHK-221Y	E-CAPACITOR	220PF 10X 50V	
CA121	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V		CA121	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V	
CA126	QY41HK-332	C-CAPACITOR	3300PF 10X 50V		CA126	QY41HK-332	C-CAPACITOR	3300PF 10X 50V	
CA127	QETC1EM-2262N	E-CAPACITOR	22MF 20X 25V		CA127	QETC1EM-2262N	E-CAPACITOR	22MF 20X 25V	
CA130	QFLC1HJ-8232M	M-CAPACITOR	0.82MF 5X 50V		CA130	QFLC1HJ-8232M	M-CAPACITOR	0.82MF 5X 50V	
CA132	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V		CA132	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V	
CA133	QCBBIHK-221Y	E-CAPACITOR	220PF 10X 50V		CA133	QCBBIHK-221Y	E-CAPACITOR	220PF 10X 50V	
CA134	QFLC1HJ-2232M	M-CAPACITOR	0.22MF 5X 50V		CA134	QFLC1HJ-2232M	M-CAPACITOR	0.22MF 5X 50V	
CA141	QCS11HJ-331	C-CAPACITOR	330PF 5X 50V		CA141	QCS11HJ-331	C-CAPACITOR	330PF 5X 50V	
CA202	QCBBIHK-102Y	E-CAPACITOR	1000PF 10X 50V		CA202	QCBBIHK-102Y	E-CAPACITOR	1000PF 10X 50V	
CA203	QET41AM-227	E-CAPACITOR	220MF 20X 10V		CA203	QET41AM-227	E-CAPACITOR	220MF 20X 10V	
CA204	QFLC1HJ-3332M	M-CAPACITOR	0.33MF 5X 50V		CA204	QFLC1HJ-3332M	M-CAPACITOR	0.33MF 5X 50V	
CA205	QET41HM-105	E-CAPACITOR	1.0MF 20X 50V		CA205	QET41HM-105	E-CAPACITOR	1.0MF 20X 50V	

BLOCK NO. 03					BLOCK NO. 04				
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 101	QET41AM-107	E-CAPACITOR	100MF 20X 10V		C 101	QET41AM-107	E-CAPACITOR	100MF 20X 10V	
C 102	QCBBIHK-121Y	E-CAPACITOR	120PF 10X 50V		C 102	QCBBIHK-121Y	E-CAPACITOR	120PF 10X 50V	
C 103	QET41AM-227	E-CAPACITOR	220MF 20X 10V		C 103	QET41AM-227	E-CAPACITOR	220MF 20X 10V	
C 104	QFLC1HJ-1042M	M-CAPACITOR	1.0MF 5X 50V		C 104	QFLC1HJ-1042M	M-CAPACITOR	1.0MF 5X 50V	
C 105	QETMOJM-108Z	E-CAPACITOR	OUT CUP		C 105	QETMOJM-108Z	E-CAPACITOR	OUT CUP	
C 122	QFLC1HJ-1042M	M-CAPACITOR	1.0MF 5X 50V		C 122	QFLC1HJ-1042M	M-CAPACITOR	1.0MF 5X 50V	
C 123	QFLC1HJ-1042M	M-CAPACITOR	1.0MF 5X 50V		C 123	QFLC1HJ-1042M	M-CAPACITOR	1.0MF 5X 50V	
C 124	QET41AM-476	E-CAPACITOR	OPAMP		C 124	QET41AM-476	E-CAPACITOR	OPAMP	
C 141	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V		C 141	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V	
C 142	QCS11HJ-470	C-CAPACITOR	47PF 5X 50V		C 142	QCS11HJ-470	C-CAPACITOR	47PF 5X 50V	
C 143	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V		C 143	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V	
C 144	QFLC1HJ-1532M	M-CAPACITOR	0.15MF 5X 50V		C 144	QFLC1HJ-1532M	M-CAPACITOR	0.15MF 5X 50V	
C 151	QCBBIHK-681Y	E-CAPACITOR	680PF 10X 50V		C 151	QCBBIHK-681Y	E-CAPACITOR	680PF 10X 50V	
C 152	QER41EM-475VM	E-CAPACITOR	4.7MF 20X 25V		C 152	QER41EM-475VM	E-CAPACITOR	4.7MF 20X 25V	
C 161	QER41EM-475VM	E-CAPACITOR	4.7MF 20X 25V		C 161	QER41EM-475VM	E-CAPACITOR	4.7MF 20X 25V	
C 163	QFLB1HJ-821	M-CAPACITOR	820PF 5X 50V		C 163	QFLB1HJ-821	M-CAPACITOR	820PF 5X 50V	
C 192	QER41EM-475VM	E-CAPACITOR	4.7MF 20X 25V		C 192	QER41EM-475VM	E-CAPACITOR	4.7MF 20X 25V	
C 194	QET41AM-476	E-CAPACITOR	47MF 20X 10V		C 194	QET41AM-476	E-CAPACITOR	47MF 20X 10V	
C 195	QFLC1HJ-8222M	M-CAPACITOR	8200PF 5X 50V		C 195	QFLC1HJ-8222M	M-CAPACITOR	8200PF 5X 50V	
C 201	QET41AM-107	E-CAPACITOR	100MF 20X 10V		C 201	QET41AM-107	E-CAPACITOR	100MF 20X 10V	
C 202	QCBBIHK-121Y	E-CAPACITOR	120PF 10X 50V		C 202	QCBBIHK-121Y	E-CAPACITOR	120PF 10X 50V	
C 203	QET41AM-227	E-CAPACITOR	220MF 20X 10V		C 203	QET41AM-227	E-CAPACITOR	220MF 20X 10V	
C 204	QFLC1HJ-1042M	M-CAPACITOR	1.0MF 5X 50V		C 204	QFLC1HJ-1042M	M-CAPACITOR	1.0MF 5X 50V	
C 205	QETMOJM-108Z	E-CAPACITOR	OUT CUP		C 205	QETMOJM-108Z	E-CAPACITOR	OUT CUP	
C 222	QFLC1HJ-1042M	M-CAPACITOR	1.0MF 5X 50V		C 222	QFLC1HJ-1042M	M-CAPACITOR	1.0MF 5X 50V	
C 223	QFLC1HJ-1042M	M-CAPACITOR	1.0MF 5X 50V		C 223	QFLC1HJ-1042M	M-CAPACITOR	1.0MF 5X 50V	
C 224	QET41AM-476	E-CAPACITOR	OPAMP		C 224	QET41AM-476	E-CAPACITOR	OPAMP	
C 241	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V		C 241	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V	
C 242	QCS11HJ-470	E-CAPACITOR	47PF 5X 50V		C 242	QCS11HJ-470	E-CAPACITOR	47PF 5X 50V	
C 243	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V		C 243	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V	
C 244	QFLC1HJ-1532M	M-CAPACITOR	0.15MF 5X 50V		C 244	QFLC1HJ-1532M	M-CAPACITOR	0.15MF 5X 50V	
C 251	QCBBIHK-681Y	E-CAPACITOR	680PF 10X 50V		C 251	QCBBIHK-681Y	E-CAPACITOR	680PF 10X 50V	
C 252	QER41EM-475VM	E-CAPACITOR	4.7MF 20X 25V		C 252	QER41EM-475VM	E-CAPACITOR	4.7MF 20X 25V	
C 261	QER41EM-475VM	E-CAPACITOR	4.7MF 20X 25V		C 261	QER41EM-475VM	E-CAPACITOR	4.7MF 20X 25V	
C 263	QFLB1HJ-821	M-CAPACITOR	820PF 5X 50V		C 263	QFLB1HJ-821	M-CAPACITOR	820PF 5X 50V	
C 292	QER41EM-475VM	E-CAPACITOR	4.7MF 20X 25V		C 292	QER41EM-475VM	E-CAPACITOR	4.7MF 20X 25V	
C 294	QET41AM-476	E-CAPACITOR	47MF 20X 10V		C 294	QET41AM-476	E-CAPACITOR	47MF 20X 10V	
C 295	QFLC1HJ-8222M	M-CAPACITOR	8200PF 5X 50V		C 295	QFLC1HJ-8222M	M-CAPACITOR	8200PF 5X 50V	
C 302	QET41AM-227	E-CAPACITOR	RF		C 302	QET41AM-227	E-CAPACITOR	RF	
C 303	QET41EM-227	E-CAPACITOR	SW		C 303	QET41EM-227	E-CAPACITOR	SW	
C 304	QETC1HM-1042N	E-CAPACITOR	1.0MF 20X 50V		C 304	QETC1HM-1042N	E-CAPACITOR	1.0MF 20X 50V	
C 321	QET41AM-476	E-CAPACITOR	OPAMP		C 321	QET41AM-476	E-CAPACITOR	OPAMP	
C 322	QETC1AM-3362N	E-CAPACITOR	33MF 20X 10V		C 322	QETC1AM-3362N	E-CAPACITOR	33MF 20X 10V	
C 341	QET41AM-476	E-CAPACITOR	47MF 20X 10V		C 341	QET41AM-476	E-CAPACITOR	47MF 20X 10V	
C 342	QET41AM-107	E-CAPACITOR	100MF 20X 10V		C 342	QET41AM-107	E-CAPACITOR	100MF 20X 10V	
C 351	QETC1EM-2262M	E-CAPACITOR	22MF 20X 25V		C 351	QETC1EM-2262M	E-CAPACITOR	22MF 20X 25V	
C 361	QETM1EM-338	E-CAPACITOR	DECUP		C 361	QETM1EM-338	E-CAPACITOR	DECUP	
C 363	QET41AM-476	E-CAPACITOR	47MF 20X 10V		C 363	QET41AM-476	E-CAPACITOR	47MF 20X 10V	
C 364	QET41AM-476	E-CAPACITOR	47MF 20X 10V		C 364	QET41AM-476	E-CAPACITOR	47MF 20X 10V	
C 365	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V		C 365	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V	
C 366	QET41AM-107	E-CAPACITOR	VCC		C 366	QET41AM-107	E-CAPACITOR	VCC	
C 367	QET41AM-476	E-CAPACITOR	VG		C 367	QET41AM-476	E-CAPACITOR	VG	
C 368	QET41AM-476	E-CAPACITOR	VOL		C 368	QET41AM-476	E-CAPACITOR	VOL	
C 369	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V		C 369	QET41HM-475	E-CAPACITOR	4.7MF 20X 50V	
C 370	QET41AM-476	E-CAPACITOR	100HZ		C 370	QET41AM-476	E-CAPACITOR	100HZ	

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D1701	VGL1196-001	LCD		
ICA31	AN7345K	IC	PB/REC AMP	
ICA33	BA3126N	IC	HEAD SW	
IC121	BA15218N	IC	BASS BOOST	
IC301	BA15218N	IC		
IC302	CVA1792S	IC	TONE VOL	
IC303	TA78D508BP	IC		
IC304	TA8259K	IC	POWER AMP	
IC305	TA78D506BP	IC		
IC701	UPD75336GC-169	IC		
IC702	BA10324	IC		
J 301	VMJ4024-001	JACK	HP JACK	
J 303	FMMJ4001-001	SPK TERMINAL	SPK TERM.	
K 701	VQZ0048-009	INDUCTOR		
K 702	VQZ0048-009	INDUCTOR		
L 701	VQP0033-100Z	INDUCTOR		
L 703	VQP0033-100Z	INDUCTOR		
LA341	VQH1009-026	OSC COIL	COIL (=XC20)	
LA371	VQP0208-100Z	INDUCTOR		
PP 11	VMZ0015-005	POST PIN		
Q 153	KTC3203(OV)-T	TRANSISTOR		
Q 191	2SC2785	TRANSISTOR		
Q 253	KTC3203(OV)-T	TRANSISTOR		
Q 291	2SC2785	TRANSISTOR		
Q 351	KRA102M-T	D-TRANSISTOR		
Q 391	DTC115ES	TRANSISTOR		
Q 701	2SC2839	TRANSISTOR	CLOCK BEAT	
Q 702	2SC2839	TRANSISTOR	CLOCK BEAT	
Q 703	KTA1267(VG)-T	TRANSISTOR	+B CONTROL	
Q 704	2SC2785	TRANSISTOR	BUP CONTROL	
Q 705	KRC111M-T	TRANSISTOR	RESET	
Q 901	2SC2785	TRANSISTOR	TUNER SW	
Q 902	KRA107M-T	D-TRANSISTOR		
Q 911	2SD882(P,q)	TRANSISTOR	SW 8V REG	
Q 914	2SC2785	TRANSISTOR		
Q 915	2SA932(L,K)	TRANSISTOR	POWER SW	
Q 916	2SC2785	TRANSISTOR		
Q 931	2SD882(P,q)	TRANSISTOR	CD REG	
Q 932	KRA107M-T	D-TRANSISTOR		
QA122	2SC2785	TRANSISTOR	REC MUTE	
QA321	2SC2785	TRANSISTOR	REC MUTE	
QA321	2SC2785	TRANSISTOR	R MUTE DRIVE	
QA341	2SC2001(L,K)	TRANSISTOR		
QA342	2SC2785	TRANSISTOR		
QA343	2SC2785	TRANSISTOR		
QA344	2SC2785	TRANSISTOR		
QA345	2SC2785	TRANSISTOR		
QA346	2SC2785	TRANSISTOR		
R 101	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
R 102	QRH161K-2R2	FUSI-RESISTOR	2.2 10% 1/6W	
R 103	QRD161J-121	CARBON RESISTOR	HP LEVEL	
R 121	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R 122	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 123	QRD161J-183	CARBON RESISTOR	OPAMP	
R 141	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CA206	QCB81HK-151Y	C-CAPACITOR	150PF 10% 50V	
CA209	QCB81HK-221Y	C-CAPACITOR	220PF 10% 50V	
CA221	QET41HM-475	E-CAPACITOR	4.7MF 20% 50V	
CA226	QCV41HK-33Z	C-CAPACITOR	3300PF 10% 50V	
CA227	QETC1EM-226ZN	E-CAPACITOR	22MF 20% 25V	
CA230	QFLC1HJ-823ZM	M-CAPACITOR	-0.82MF 5% 50V	
CA232	QET41HM-475	E-CAPACITOR	4.7MF 20% 50V	
CA233	QCB81HK-221Y	C-CAPACITOR	220PF 10% 50V	
CA234	QFLC1HJ-223ZM	M-CAPACITOR	-0.22MF 5% 50V	
CA241	QCS11HJ-331	C-CAPACITOR	330PF 5% 50V	
CA301	QET41AM-476	E-CAPACITOR	47MF 20% 10V	
CA302	QETC1EM-226ZN	E-CAPACITOR	22MF 20% 25V	
CA303	QETC1EM-226ZN	E-CAPACITOR	22MF 20% 25V	
CA304	QET41HM-475	E-CAPACITOR	4.7MF 20% 50V	
CA305	QETC1HM-335ZN	E-CAPACITOR	3.3MF 20% 50V	
CA315	QET41CM-107	E-CAPACITOR	100MF 20% 16V	
CA322	QFLC1HJ-393ZM	M-CAPACITOR	-0.39MF 5% 50V	
CA323	QET41AM-227	E-CAPACITOR	220MF 20% 10V	
CA341	QET41EM-106	E-CAPACITOR	10MF 20% 25V	
CA342	QFLC1HJ-223ZM	M-CAPACITOR	-0.22MF 5% 50V	
CA343	QFLC1HJ-183ZM	M-CAPACITOR	-0.18MF 5% 50V	
CA345	QFP81HJ-542	PP-CAPACITOR	BIAS0	
CA349	QCV81CM-103Y	C-CAPACITOR	-0.10MF 20% 16V	
CA350	QCV81CM-103Y	C-CAPACITOR	-0.10MF 20% 16V	
CA351	QCS11HJ-561	C-CAPACITOR	BIAS1	
CA352	QFP81HJ-392	PP-CAPACITOR	BIAS2	
CA701	QCV81CM-103Y	C-CAPACITOR	-0.10MF 20% 16V	
CA702	QET41HM-105	E-CAPACITOR	1.0MF 20% 50V	
CA703	QET41HM-105	E-CAPACITOR	1.0MF 20% 50V	
CA704	QET41HM-105	E-CAPACITOR	1.0MF 20% 50V	
CA705	VMC0040-005Z	CONNECTOR	TO R/P HEAD	
CA706	VMC0075-009	CONNECTOR	TO MECHA SW	
CA707	VMC0041-004	CONNECTOR	TEST POINT	
CA708	VMC0163-007	CONNECTOR	CD	
CA709	VMC0163-011	CONNECTOR	MICOM-CONT	
CA710	VMC0192-006	CONNECTOR	MICOM-CONT	
CA711	VMC0163-009	CONNECTOR	TO TUNER	
CA712	VMC0163-009	CONNECTOR	TO CD	
CA713	VMC0163-007	CONNECTOR	TO CDTRAY(103.6	
D 321	MTZ4-3JB	ZENER DIODE		
D 361	MTZ5-1JC	ZENER DIODE		
D 392	1SS133	SI DIODE		
D 393	1SS133	SI DIODE		
D 701	1SS133	SI DIODE		
D 702	MTZ5-1JAT-77	ZENER DIODE		
D 703	1SS133	SI DIODE		
D 711	1SS133	SI DIODE		
D 911	MTZ6-8JB	ZENER DIODE		
D 913	1SS133	SI DIODE		
D 914	1SR35-100	SI DIODE		
D 931	MTZ6-2JAT-77	Z-DIODE		
DA301	1SS133	SI DIODE		
DA302	1SS133	SI DIODE		
DA303	1SS133	SI DIODE		





BLOCK NO. 01

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 142	QRD161J-363	CARBON RESISTOR	36K 5% 1/6W	
	R 143	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
	R 152	QRD161J-753	CARBON RESISTOR	75K 5% 1/6W	
	R 154	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 155	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 158	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 160	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 161	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 162	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 163	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 190	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 191	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 192	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 193	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
	R 194	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 197	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 198	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 199	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 201	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
A	R 202	QRH161K-2R2	FUSI .RESISTOR	2.2 10% 1/6W	
	R 203	QRD161J-121	CARBON RESISTOR	HP LEVEL	
	R 221	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 222	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 223	QRD161J-183	CARBON RESISTOR	OPAMP	
	R 241	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 242	QRD161J-363	CARBON RESISTOR	36K 5% 1/6W	
	R 243	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
	R 252	QRD161J-753	CARBON RESISTOR	75K 5% 1/6W	
	R 254	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 255	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 258	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 260	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 261	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 262	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 263	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 290	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 291	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 292	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 293	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
	R 294	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 297	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 298	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 299	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 321	QRD161J-101	CARBON RESISTOR	OPAMP	
	R 322	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 341	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 342	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 343	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 363	QRD161J-274	CARBON RESISTOR	270K 5% 1/6W	
	R 364	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 365	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 366	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 367	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 368	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 369	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	

BLOCK NO. 02

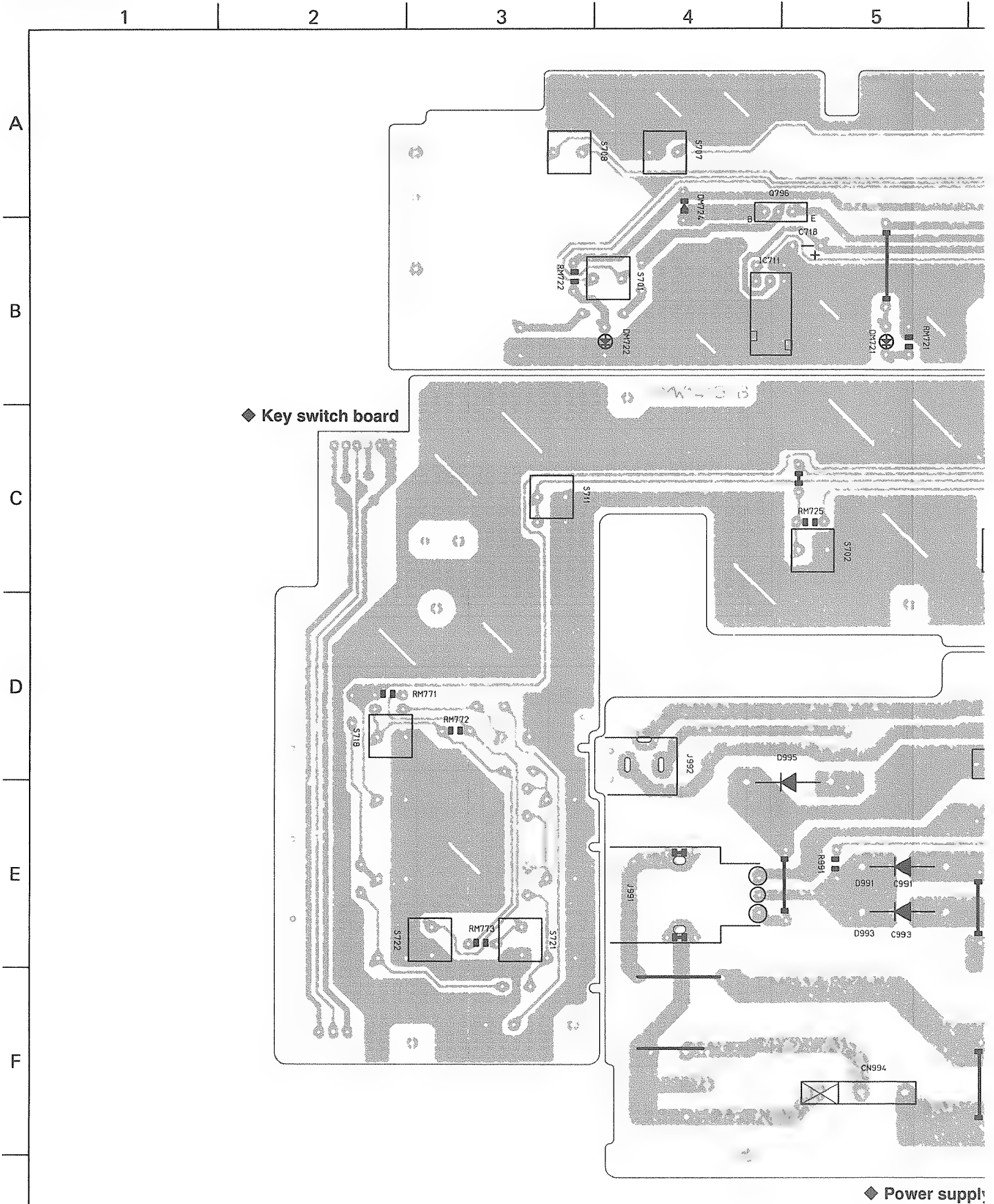
A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 370	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 371	QRD161J-164YT	CARBON RESISTOR	160K 5% 1/6W	
	R 391	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 392	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	R 393	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 701	QRD161J-681	CARBON RESISTOR	CLOCK	
	R 702	QRD161J-681	CARBON RESISTOR	CLOCK	
	R 703	QRD161J-331	CARBON RESISTOR	BU P	
	R 711	QRD161J-103	CARBON RESISTOR	RESET	
	R 712	QRD161J-103	CARBON RESISTOR	RESET	
	R 713	QRD161J-473	CARBON RESISTOR	BU P	
	R 714	QRD161J-333	CARBON RESISTOR	BU P	
	R 715	QRD161J-104	CARBON RESISTOR	BU P	
	R 716	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 719	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 720	QRD161J-102	CARBON RESISTOR	BEAT	
	R 721	QRD161J-103	CARBON RESISTOR	MBH	
	R 722	QRD161J-104	CARBON RESISTOR	VOL	
	R 723	QRD161J-104	CARBON RESISTOR	BASS	
	R 724	QRD161J-104	CARBON RESISTOR	TRE	
	R 725	QRD161J-222	CARBON RESISTOR	BU P	
	R 726	QRD161J-103	CARBON RESISTOR	+BCTL	
	R 727	QRD161J-222	CARBON RESISTOR	BEAT	
	R 728	QRD161J-222	CARBON RESISTOR	KEY2	
	R 729	QRD161J-222	CARBON RESISTOR	KEY1	
	R 730	QRD161J-222	CARBON RESISTOR	KEY3(AP/BP)	
	R 731	QRD161J-222	CARBON RESISTOR	MICJ	
	R 732	QRD161J-222	CARBON RESISTOR	BATT	
	R 733	QRD161J-103	CARBON RESISTOR	KEY2	
	R 734	QRD161J-103	CARBON RESISTOR	KEY1	
	R 735	QRD161J-103	CARBON RESISTOR	KEY3(AP/BP)	
	R 738	QRD161J-222	CARBON RESISTOR	DOOR SW	
	R 739	QRD161J-103	CARBON RESISTOR	DOOR SW	
	R 740	QRD161J-102	CARBON RESISTOR	BUS3	
	R 741	QRD161J-102	CARBON RESISTOR	BUS2	
	R 742	QRD161J-102	CARBON RESISTOR	BUS1	
	R 743	QRD161J-102	CARBON RESISTOR	BUS0	
	R 744	QRD161J-102	CARBON RESISTOR	CCE	
	R 745	QRD161J-102	CARBON RESISTOR	BUCK	
	R 746	QRD161J-222	CARBON RESISTOR	XRST	
	R 747	QRD161J-683	CARBON RESISTOR	S CD	
	R 749	QRD161J-473	CARBON RESISTOR	REST	
	R 750	QRD161J-102	CARBON RESISTOR	BUS3	
	R 751	QRD161J-102	CARBON RESISTOR	BUS2	
	R 752	QRD161J-102	CARBON RESISTOR	BUS1	
	R 753	QRD161J-102	CARBON RESISTOR	BUS0	
	R 754	QRD161J-102	CARBON RESISTOR	CCE	
	R 755	QRD161J-102	CARBON RESISTOR	BUCK	
	R 756	QRD161J-102	CARBON RESISTOR	XRST	
	R 757	QRD161J-223	CARBON RESISTOR	S CD	
	R 758	QRD161J-222	CARBON RESISTOR	BIAS2	
	R 759	QRD161J-222	CARBON RESISTOR	BIAS1	
	R 760	QRD161J-222	CARBON RESISTOR	F TUNER	
	R 761	QRD161J-103	CARBON RESISTOR	TUST	
	R 762	QRD161J-103	CARBON RESISTOR	MPX	

BLOCK NO. 01					
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	
R 763	QRD161J-473	CARBON RESISTOR	AC/DC		
R 764	QRD161J-103	CARBON RESISTOR	WAKEUP		
R 765	QRD161J-222	CARBON RESISTOR	REMCON		
R 766	QRD161J-222	CARBON RESISTOR	RECL		
R 767	QRD161J-223	CARBON RESISTOR	SDATA		
R 769	QRD161J-102	CARBON RESISTOR	SDATA2		
R 770	QRD161J-102	CARBON RESISTOR	SCK		
R 772	QRD161J-222	CARBON RESISTOR	PIN		
R 773	QRD161J-222	CARBON RESISTOR	A/B		
R 776	QRD167J-562	CARBON RESISTOR	RECH		
R 777	QRD167J-562	CARBON RESISTOR	RECB		
R 778	QRD161J-103	CARBON RESISTOR	MT1		
R 779	QRD161J-103	CARBON RESISTOR	MT0		
R 780	QRD161J-222	CARBON RESISTOR	F CD		
R 781	QRD161J-223	CARBON RESISTOR	SMUTE		
R 782	QRD161J-222	CARBON RESISTOR	PBM		
R 783	QRD161J-222	CARBON RESISTOR	A/B		
R 784	QRD161J-222	CARBON RESISTOR	REC H		
R 785	QRD161J-222	CARBON RESISTOR	REC B		
R 786	QRD161J-222	CARBON RESISTOR	MT1(C1CD)BIS2(C3C		
R 787	QRD161J-222	CARBON RESISTOR	MT0		
R 789	QRD161J-104	CARBON RESISTOR	REC L		
R 790	QRD161J-104	CARBON RESISTOR	WAKEUP		
R 791	QRD161J-393	CARBON RESISTOR	LCDB		
R 792	QRD161J-104	CARBON RESISTOR	VLC0		
R 793	QRD161J-104	CARBON RESISTOR	VLC1		
R 794	QRD161J-104	CARBON RESISTOR	VLC2		
R 795	QRD161J-222	CARBON RESISTOR	PBM		
R 796	QRD161J-183	CARBON RESISTOR	OPN(C1CD)BIS2(C3C		
R 797	QRD161J-913	CARBON RESISTOR	CLS(C1CD)BIS1(C3C		
R 798	QRD161J-104	CARBON RESISTOR	100K		
R 901	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W		
R 902	QRD161J-101	CARBON RESISTOR	XC7(121)		
R 903	QRD161J-151	CARBON RESISTOR	XC7(121)		
R 911	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		
R 912	QRD161J-564	CARBON RESISTOR	XC7(392)		
R 913	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
R 914	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 915	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W		
R 922	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 923	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W		
R 924	QRD161J-220	CARBON RESISTOR	22 5% 1/6W		
R 929	QRZ0077-4R7X	FUSE RESISTOR	4.7 1/0W		
R 931	QRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W		
R 932	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		
R 933	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W		
R 934	QRD161J-473	CARBON RESISTOR	(=R908)		
RA103	QRD161J-220	CARBON RESISTOR	22 5% 1/6W		
RA104	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W		
RA106	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W		
RA107	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
RA121	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W		
RA125	QRD161J-560	CARBON RESISTOR	56 5% 1/6W		
RA126	QRD161J-681	CARBON RESISTOR	680 5% 1/6W		
RA128	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W		

BLOCK NO. 02					
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	
RA130	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W		
RA131	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W		
RA132	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W		
RA133	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
RA143	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W		
RA203	QRD161J-220	CARBON RESISTOR	22 5% 1/6W		
RA204	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W		
RA206	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W		
RA207	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
RA221	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W		
RA225	QRD161J-560	CARBON RESISTOR	56 5% 1/6W		
RA226	QRD161J-681	CARBON RESISTOR	680 5% 1/6W		
RA228	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W		
RA230	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W		
RA231	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W		
RA232	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W		
RA233	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
RA241	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W		
RA301	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		
RA305	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
RA315	QRD161J-221	CARBON RESISTOR	220 5% 1/6W		
RA316	QRD161J-163	CARBON RESISTOR	16K 5% 1/6W		
RA321	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
RA322	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W		
RA324	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W		
RA327	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W		
RA341	QRD14CJ-220S	CARBON RESISTOR	22 5% 1/4W		
RA342	QRD161J-151	CARBON RESISTOR	150 5% 1/6W		
RA343	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W		
RA344	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W		
RA346	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
RA349	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W		
RA350	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W		
RA351	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W		
RA352	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W		
RA354	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W		
RA355	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W		
RA361	QRD161J-474	CARBON RESISTOR	470K 5% 1/6W		
RA362	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
RA371	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
RM701	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		
RM702	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
RM703	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
RM704	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
RM705	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W		
RM706	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W		
RM707	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W		
RM751	QRD161J-273	CARBON RESISTOR	BATT-(XC7-303)		
RM752	QRD161J-183	CARBON RESISTOR	BATT-(XC7-563)		
RM791	QRD161J-102	CARBON RESISTOR	SDATA2		
RM792	QRD161J-102	CARBON RESISTOR	SDATA2		
VRA41	QVPA603-203M	SEMI.V.RESISTOR	BIAS ADJ		
X 701	MZ24.19	CERA LOCK			

■ Switch board



◆ Power supply

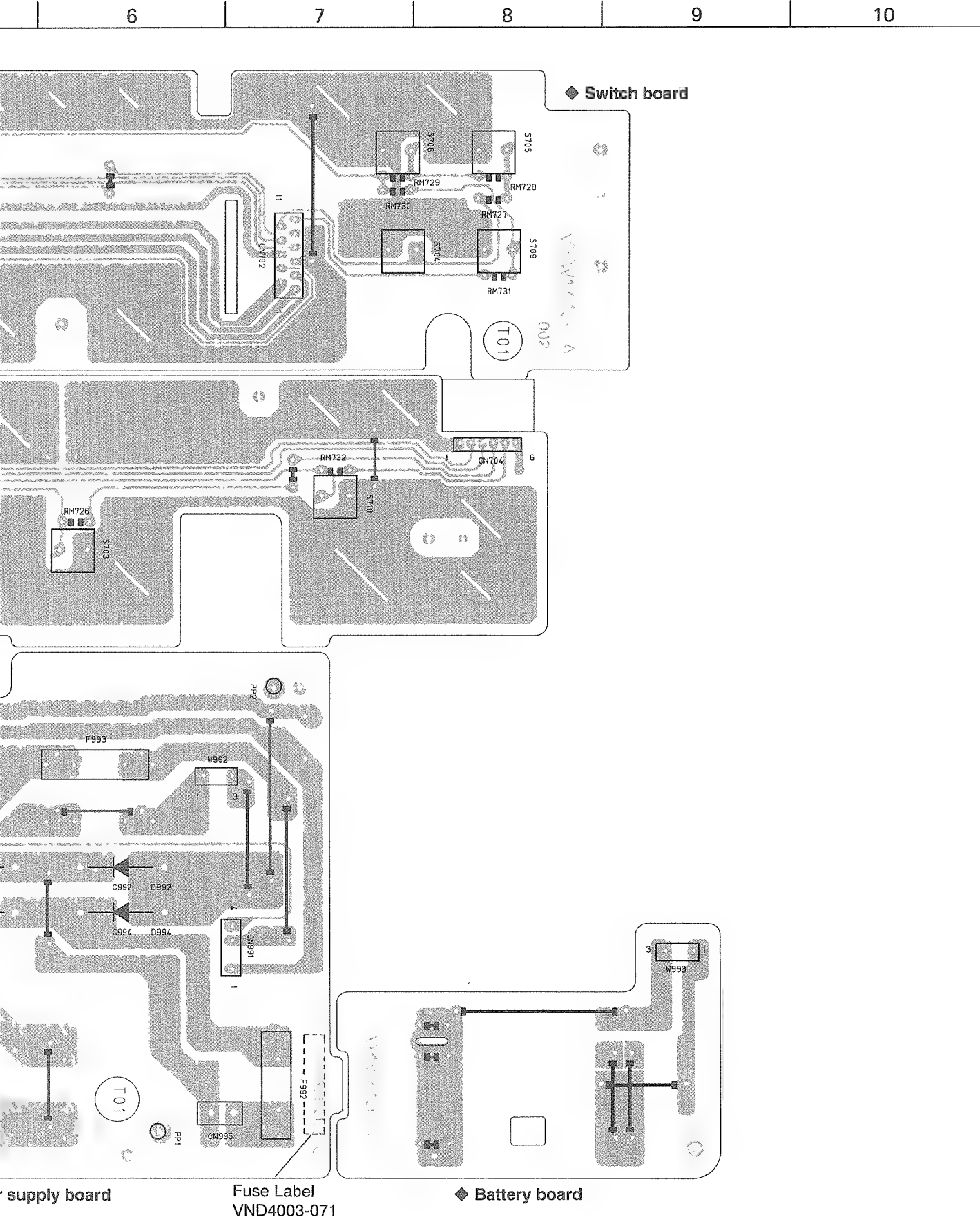


Fig. 8 – 2



## ● Switch board parts list

BLOCK NO. 02					REMARKS	SUFFIX
REF.	PARTS NO.	PARTS NAME				
C 718	QET41CM-476	E-CAPACITOR			47MF 20% 16V	
C 991	QCF11HP-223	C-CAPACITOR			.022MF +100%-0%	
C 992	QCF11HP-223	C-CAPACITOR			.022MF +100%-0%	
C 993	QCF11HP-223	C-CAPACITOR			.022MF +100%-0%	
C 994	QCF11HP-223	C-CAPACITOR			.022MF +100%-0%	
CN702	VMC0163-011	CONNECTOR			MICOM-CONT	
CN704	VMC0192-P06	CONNECTOR			SUPPLY-MAIN	
CN991	VMC0041-004	CONNECTOR			PRI	
CN994	EMV5137-002	CONNECTOR			SEC	
CN995	VMZ0049-A02	CONNECTOR				
A D 991	1N5401TM	SI DIODE				
A D 992	1N5401TM	SI DIODE				
A D 993	1N5401TM	SI DIODE				
A D 994	1N5401TM	SI DIODE				
A D 995	1N5401TM	SI DIODE				
DM721	SLR-34VCF25	LED			MBH(RED)	
DM722	SLR-34MCF25	LED			POWER(RED)	
DM723	SLR-34VCF25	LED			STANDBY(RED)	
DM724	1SS133	SI DIODE				
IC711	GP1U271X	RM RECIVER			REMCON	
J 991	QMC0263-004BS	AC SOCKET				
J 992	QMA431B-V01	FILM CAPACITOR				
PP 1	VMZ0015-005	POST PIN				
PP 2	VMZ0015-005	POST PIN				
Q 706	KRA113M-T	TRANSISTOR			IND.CONT	
R 991	QRD161J-103	CARBON RESISTOR			AC IN	
RM721	QRD161J-221	CARBON RESISTOR			MBH	
RM722	QRD161J-331	CARBON RESISTOR			POWER	
RM723	QRD161J-331	CARBON RESISTOR			330 5% 1/6W	
RM725	QRD161J-102	CARBON RESISTOR			MICOM-CONT	
RM726	QRD161J-102	CARBON RESISTOR				
RM727	QRD161J-122	CARBON RESISTOR			1.2K 5% 1/6W	
RM728	QRD161J-152	CARBON RESISTOR			1.5K 5% 1/6W	
RM729	QRD161J-222	CARBON RESISTOR			2.2K 5% 1/6W	
RM730	QRD161J-272	CARBON RESISTOR			2.7K 5% 1/6W	
RM731	QRD161J-392	CARBON RESISTOR			3.9K 5% 1/6W	
RM732	QRD161J-542	CARBON RESISTOR			MICOM-CONT	
RM733	QRD161J-683	CARBON RESISTOR			68K 5% 1/6W	
RM771	QRD167J-332	CARBON RESISTOR			EJECT(1CD)	
RM772	QRD167J-682	CARBON RESISTOR			PLAY(1CD)	
RM773	QRD161J-392	CARBON RESISTOR			STOP(1CD)	
S 701	QSQ4H11-V10Z	TACT SWITCH			POWER	
S 702	QSQ4H11-V10Z	TACT SWITCH			VOL+	
S 703	QSQ4H11-V10Z	TACT SWITCH			VOL-	
S 704	QSQ4H11-V10Z	TACT SWITCH			BAND	
S 705	QSQ4H11-V10Z	TACT SWITCH			REV.SKIP	
S 706	QSQ4H11-V10Z	TACT SWITCH			FOR.SKIP	
S 707	QSQ4H11-V10Z	TACT SWITCH			SLEEP	
S 708	QSQ4H11-V10Z	TACT SWITCH			WAKE UP	
S 709	QSQ4H11-V10Z	TACT SWITCH			PRESET	
S 710	QSQ4H11-V10Z	TACT SWITCH			MBH	
S 711	QSQ4H11-V10Z	TACT SWITCH			SOUND	
S 718	QSQ4H11-V10Z	TACT SWITCH			EJECT(1CD)PLY(3C	
S 721	QSQ4H11-V10Z	TACT SWITCH			RANDOM	
S 722	QSQ4H11-V10Z	TACT SWITCH			REPEAT	

■ **Tuner board**

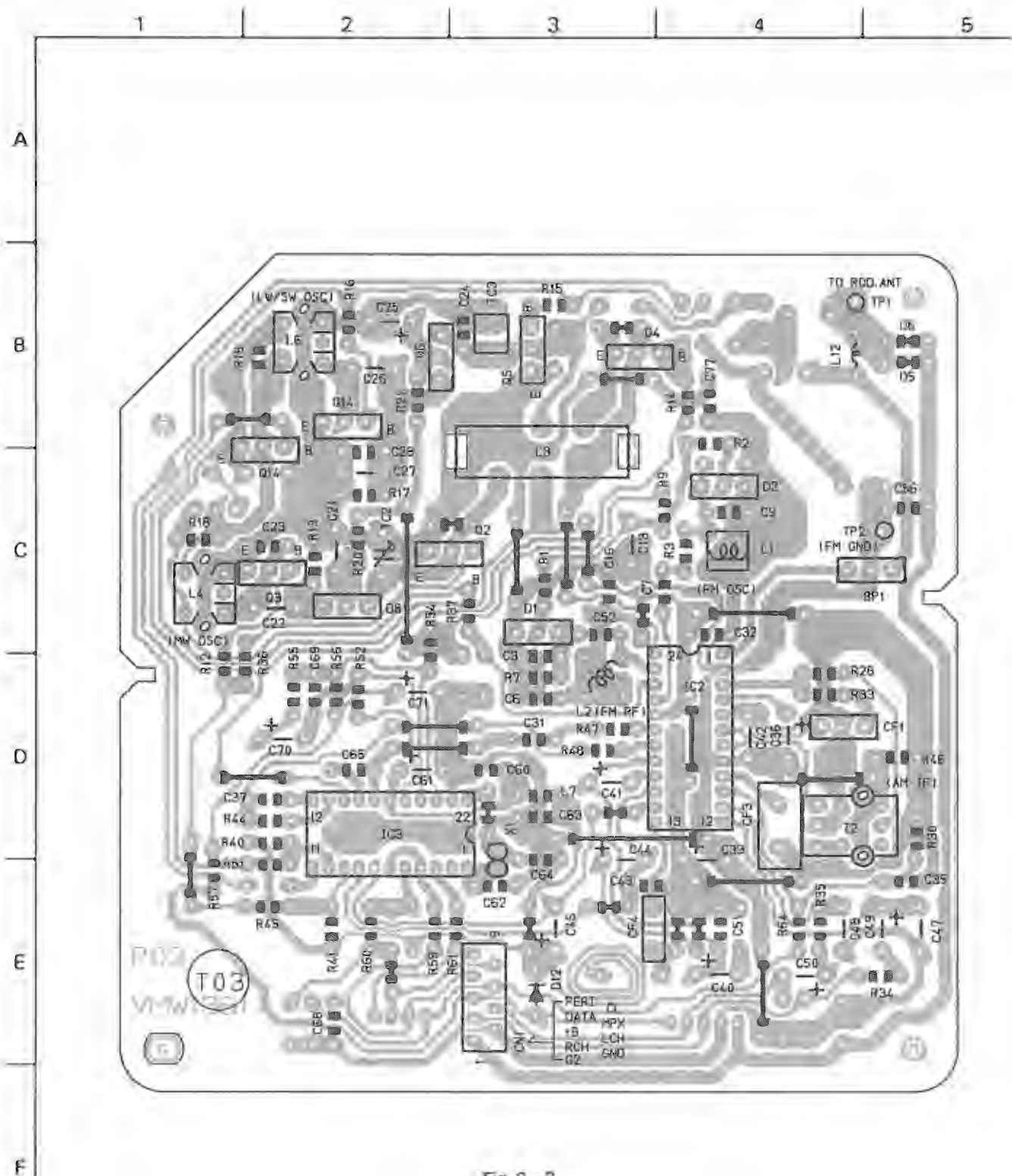


Fig. 8-3



## ● Tuner board parts list

BLOCK NO. 03					BLOCK NO. 03				
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
BP	1 VBP4M3B-007Z	P FILTER	BPF		L	3 VQB008B-503	BAR ANTENNA	MW/LW RF	
C	3 QCSB1HK-5R6Y	C.CAPACITOR	5.6PF 10% 50V		L	4 VQM7U02-404	OSC COIL(MW)	MW OSC	
C	6 QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		L	6 VQL7U02-502	OSC COIL(LW)	LW OSC	
C	7 QCS11HJ-200	C.CAPACITOR	20PF 5% 50V		L	7 VQP001B-221	INDUCTOR		
C	9 QCS11HJ-120	C.CAPACITOR	12PF 5% 50V		L	12 VQ0047-16	RF COIL		
C	13 QCC11EM-223V	C.CAPACITOR	.022MF 20% 25V		Q	2 2SC1923	TRANSISTOR	LW	
C	16 QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		Q	3 2SC1923	TRANSISTOR		
C	21 QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V		Q	4 2SA1175	TRANSISTOR		
C	22 QFP41HJ-431	PP.CAPACITOR	430PF 5% 50V		Q	5 2SC1923	TRANSISTOR		
C	23 QCT30CH-120Y	C.CAPACITOR	12PF 5% 50V		Q	6 2SC1923	TRANSISTOR		
C	24 QCSB1HJ-620Y	C.CAPACITOR	62PF 5% 50V		Q	14 DTA114YS	TRANSISTOR		
C	25 QET1CM-1047	E.CAPACITOR	.10MF 20% 50V		R	1 QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
C	26 QFP31HJ-181ZM	PP.CAPACITOR	180PF 5% 50V		R	2 QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
C	27 QCS11HJ-101	C.CAPACITOR	100PF 5% 50V		R	3 QRD167J-4R7	CARBON RESISTOR	4.7 5% 1/6W	
C	28 QCS11HJ-150	C.CAPACITOR	15PF 5% 50V		R	7 QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
C	31 QCB1HK-102Y	C.CAPACITOR	1000PF 10% 50V		R	9 QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
C	32 QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		R	12 QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
C	33 QET41AM-107	E.CAPACITOR	100MF 20% 10V		R	13 QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
C	35 QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		R	14 QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
C	36 QET41HM-475	E.CAPACITOR	.047MF 20% 25V		R	15 QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
C	37 QCB1HK-102Y	C.CAPACITOR	1000PF 10% 50V		R	16 QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
C	40 QET41HM-105	E.CAPACITOR	1.0MF 20% 50V		R	17 QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
C	41 QET41CM-106	E.CAPACITOR	10MF 20% 16V		R	18 QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
C	42 QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V		R	19 QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
C	43 QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		R	20 QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
C	44 QET41HM-104N	E.CAPACITOR	.10MF 20% 50V		R	21 QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
C	45 QET41HM-474	E.CAPACITOR	.47MF 20% 50V		R	28 QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
C	47 QCC11EM-123V	C.CAPACITOR	.012MF 20% 25V		R	30 QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
C	48 QCC11EM-123V	C.CAPACITOR	.012MF 20% 25V		R	31 QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
C	49 QET41HM-104N	E.CAPACITOR	.10MF 20% 50V		R	32 QRD161J-223	CARBON RESISTOR	=B121	
C	50 QET41HM-104N	E.CAPACITOR	.10MF 20% 50V		R	33 QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
C	51 QCB1HK-681Y	C.CAPACITOR	680PF 10% 50V		R	34 QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
C	52 QCB1HK-102Y	C.CAPACITOR	1000PF 10% 50V		R	35 QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
C	56 QCB1HK-102Y	C.CAPACITOR	1000PF 10% 50V		R	36 QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
C	60 QCB1HK-102Y	C.CAPACITOR	1000PF 10% 50V		R	37 QRD161J-560	CARBON RESISTOR	56 5% 1/6W	
C	61 QET41AM-107	E.CAPACITOR	100MF 20% 10V		R	40 QRD161J-222	CARBON RESISTOR	E/U	
C	62 QCT30CH-120Y	C.CAPACITOR	12PF 5% 50V		R	41 QRD161J-222	CARBON RESISTOR	E/U	
C	63 QCB1HK-102Y	C.CAPACITOR	1000PF 10% 50V		R	44 QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
C	64 QCT30CH-120Y	C.CAPACITOR	12PF 5% 50V		R	45 QRD161J-102	CARBON RESISTOR	E/U	
C	65 QCB1HK-102Y	C.CAPACITOR	1000PF 10% 50V		R	46 QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
C	68 QCB1HK-151V	C.CAPACITOR	1500PF 10% 50V		R	47 QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
C	69 QCVB1CN-222Y	C.CAPACITOR	2200PF 20% 16V		R	48 QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
C	70 QET1HM-225ZN	E.CAPACITOR	2.2MF 20% 50V		R	51 QRD161J-102	CARBON RESISTOR	E/U	
C	71 QET1HM-335Z	E.CAPACITOR	3.3MF 20% 50V		R	52 QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
C	77 QCB1HK-102Y	C.CAPACITOR	1000PF 10% 50V		R	54 QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
CF	1 VCF2M3B-106	C FILTER			R	55 QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
CF	3 VCF1Z2T-117Z	C FILTER			R	56 QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
CF	4 CMU2-456A05	CERA LOCK			R	57 QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
CN	1 VMC0163-009	CONNECTOR			R	59 QRD161J-102	CARBON RESISTOR	=B113	
D	1 SVC203SPA-AB-AL	VARI CAP	TO MAIN		R	60 QRD161J-102	CARBON RESISTOR	=B114	
D	2 SVC203SPA-AB-AL	VARI CAP			R	61 QRD161J-102	CARBON RESISTOR	=B108	
D	5 1SS133	SI DIODE			R	64 QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
D	6 1SS133	SI DIODE			T	2 VQT7A21-112	IFT		
D	8 SVC344-AA	VARI CAP			TC	2 QAT3722-200ZM	T.CAPACITOR	MW RF	
D	10 SVC344-AA	VARI CAP			TC	3 QAT3722-300ZM	T.CAPACITOR	LW RF	
D	12 DSK10C-E	DIODE			TP	1 VMZ0015-002	POST PIN	TO ROD ANT	
IC	2 TA2008N	IC			TP	2 VMZ0015-002	POST PIN	GND	
IC	3 LC72136	IC			X	1 VCX5044-001	CRYSTAL		
L	1 VQF1B20-019	OSC COIL	FM OSC						
L	2 VQC1505-002T	RF COIL	FM RF						

### ■ CD amplifier board

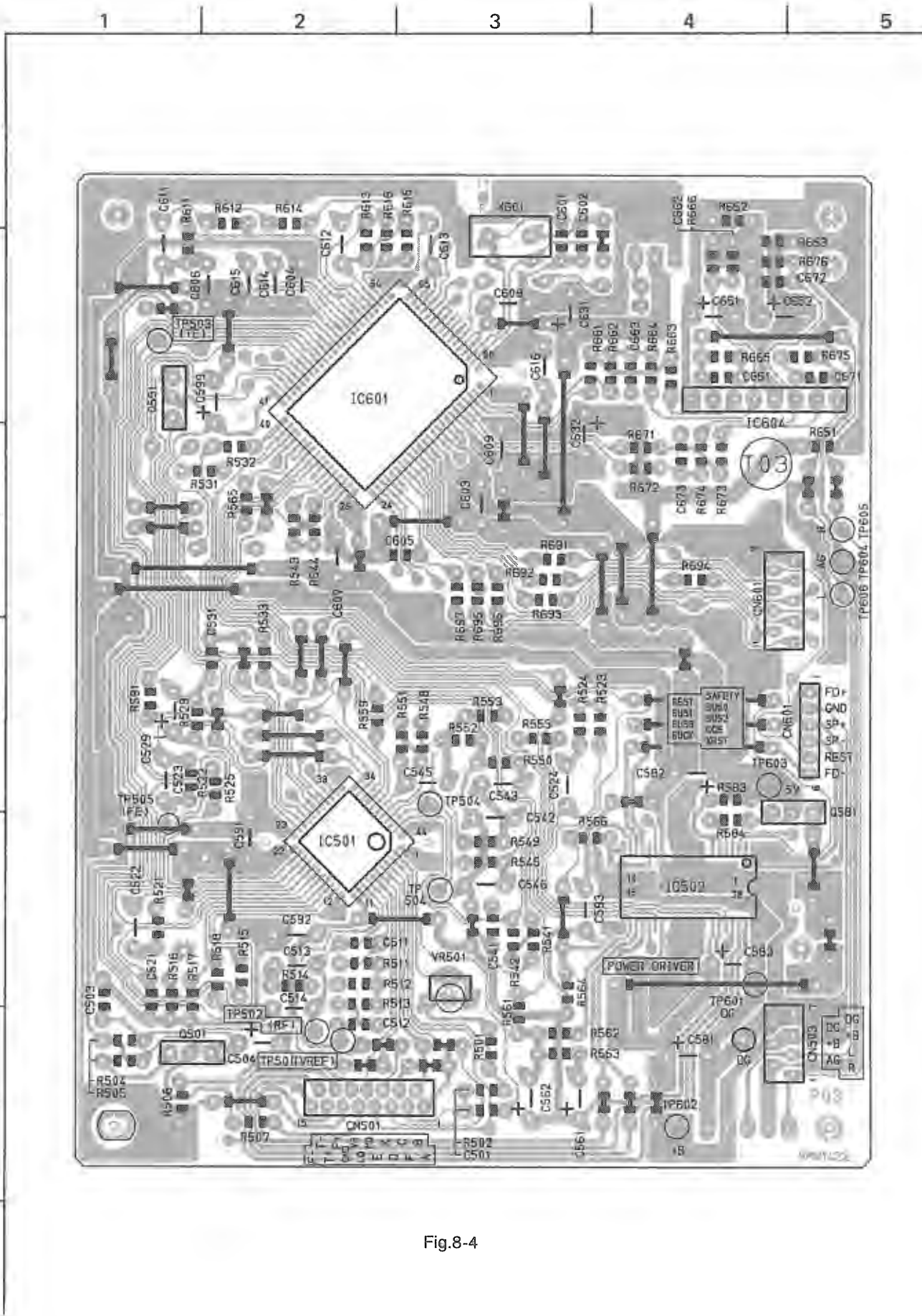


Fig.8-4



● CD amplifier board parts list

BLOCK NO. 04

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 501	QC8B1HK-821Y	C.CAPACITOR	820PF 10% 50V	
	C 503	QC8B1CN-103Y	C.CAPACITOR	-010MF 30% 16V	
	C 504	QET41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 511	QC8B1HJ-3R9	C.CAPACITOR	3.9PF 10% 50V	
	C 512	QC8B1HJ-270Z	C.CAPACITOR	27PF 5% 50V	
	C 513	QF81HJ-104ZM	M.CAPACITOR	-10MF 5% 50V	
	C 514	QF81HJ-472ZM	M.CAPACITOR	4700PF 5% 50V	
	C 521	QC8B1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C 522	QF81HJ-473ZM	M.CAPACITOR	-047MF 5% 50V	
	C 523	QF81HJ-154	FILM CAPACITOR	-15MF 5% 50V	
	C 524	QF81HJ-473ZM	NP.E CAPACITOR	4.7MF 20% 25V	
	C 529	QF81HJ-336ZM	E.CAPACITOR	33MF 20% 10V	
	C 531	QC8B1CN-822Y	C.CAPACITOR	8200PF 20% 16V	
	C 541	QC8B1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 542	QF81HJ-103ZM	M.CAPACITOR	-010MF 5% 50V	
	C 543	QF81HJ-393ZM	M.CAPACITOR	-039MF 5% 50V	
	C 545	QF81HJ-105Z	NP.E.CAPACITOR	1.0MF 20% 50V	
	C 546	QF81HJ-223ZM	M.CAPACITOR	-022MF 5% 50V	
	C 561	QET41AM-476	E.CAPACITOR	47MF 20% 10V	
	C 562	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V	
	C 581	QET41AM-477	E.CAPACITOR	470MF 20% 10V	
	C 582	QET41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 591	VC80012-105Z	C.CAPACITOR		
	C 592	VC80012-105Z	C.CAPACITOR		
	C 593	QC811EM-104V	C.CAPACITOR	-10MF 20% 25V	
	C 599	QF81HJ-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 601	QC811HJ-220	C.CAPACITOR	FOR CERA LOCK	
	C 602	QC811HJ-220	C.CAPACITOR	FOR CERA LOCK	
	C 603	QF81HJ-104ZM	FILM CAPACITOR	-10MF 5% 50V	
	C 604	QC811EM-104V	C.CAPACITOR	-10MF 20% 25V	
	C 605	QC811CN-103Y	C.CAPACITOR	-010MF 30% 16V	
	C 606	QC811EM-473V	C.CAPACITOR	-047MF 20% 25V	
	C 607	QF81HJ-104ZM	FILM CAPACITOR	-10MF 5% 50V	
	C 608	QC811EM-473V	C.CAPACITOR	-047MF 20% 25V	
	C 609	QF81HJ-104ZM	FILM CAPACITOR	-10MF 5% 50V	
	C 611	QC811HJ-101	C.CAPACITOR	100PF 5% 50V	
	C 612	QF81HJ-103ZM	M.CAPACITOR	-010MF 5% 50V	
	C 613	QF81HJ-103ZM	M.CAPACITOR	-010MF 5% 50V	
	C 614	QF81HJ-332ZM	M.CAPACITOR	3300PF 5% 50V	
	C 615	QF81HJ-332ZM	M.CAPACITOR	3300PF 5% 50V	
	C 616	QC811EM-103V	C.CAPACITOR	FOR EMC	
	C 631	QF81HJ-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 632	QF81HJ-107	E.CAPACITOR	100MF 20% 6.3V	
	C 651	QF81HJ-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 652	QF81HJ-226	E.CAPACITOR	22MF 20% 16V	
	C 661	QC8B1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 662	QC8B1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 663	QC8B1HK-270Z	C.CAPACITOR	27PF 5% 50V	
	C 671	QC8B1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 672	QC8B1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 673	QC8B1HK-270Z	C.CAPACITOR	27PF 5% 50V	
	CN501	EMV7171-115R	15FFC CONNECTOR	TO PICK UP	
	CN502	VMC0075-006	CONNECTOR	TO MECHA	
	CN503	VMC0163-R07	CONNECTOR	TO AMP	
	CN601	VMC0163-R09	CONNECTOR	TO MICOM	

BLOCK NO. 04

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	IC501	TAS191F	IC	SERVO LSI	
	IC502	BA6897FP	IC	POWER DRIVER	
	IC601	TC9284BF	IC	1 CHIP PROCESSE	
	IC604	BA15218N	IC	L.P.F	
	Q 501	2SA952(L,K)	TRANSISTOR	LASER APC	
	Q 581	2SA952(L,K)	TRANSISTOR	SV REGULATOR	
	Q 591	2SA1309(RS)	TRANSISTOR	2VREF	
	R 501	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R 502	QRD161J-403	CARBON RESISTOR	10K 5% 1/6W	
	R 504	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
	R 505	QRD161J-100	CARBON RESISTOR	10 5% 1/6W	
	R 506	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 507	QRD161J-420	CARBON RESISTOR	12 5% 1/6W	
	R 511	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 512	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 513	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 514	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 515	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 516	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 517	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
	R 518	QRD161J-335YT	CARBON RESISTOR	3.3K 5% 1/6W	
	R 521	QRD161J-454	CARBON RESISTOR	150K 5% 1/6W	
	R 522	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 523	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 524	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
	R 525	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 529	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 531	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 533	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 535	QRD161J-453	CARBON RESISTOR	15K 5% 1/6W	
	R 541	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 542	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 543	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 544	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 545	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 548	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 549	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 550	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 551	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 552	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 553	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 555	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 559	QRD161J-125	CARBON RESISTOR	1.2M 5% 1/6W	
	R 561	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 562	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 563	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 564	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 565	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
	R 566	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 583	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 584	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
	R 591	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 611	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 612	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 613	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	

BLOCK NO. 04

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 614	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 615	QRD161J-225	CARBON RESISTOR	2.2M 5% 1/6W	
R 616	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
R 651	QRD161J-820	CARBON RESISTOR	82.5% 1/6W	
R 652	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 653	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 661	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 662	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 663	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 664	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 665	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 666	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 671	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 672	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 673	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 674	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 675	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 676	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 691	QRD161J-561	CARBON RESISTOR	FTZ	
R 692	QRD161J-561	CARBON RESISTOR	FTZ	
R 693	QRD161J-561	CARBON RESISTOR	FTZ	
R 694	QRD161J-561	CARBON RESISTOR	FTZ	
R 695	QRD161J-561	CARBON RESISTOR	FTZ	
R 696	QRD161J-561	CARBON RESISTOR	FTZ	
R 697	QRD161J-561	CARBON RESISTOR	FTZ	
VR501	QVZ3523-154Z	V.RESISTOR	TE OFFSET ADJ	
X 601	CSA16.93MX2040T	CERA LOCK	16.93MHZ	

● Cassette mechanism electrical parts

BLOCK NO. 06				
REF.	PARTS NO	PARTS NAME	REMARKS	SUFFIX
CA371	QET41AM-227	E.CAPACITOR	220MF 20% 10V	

■ CD loading (tray) motor board

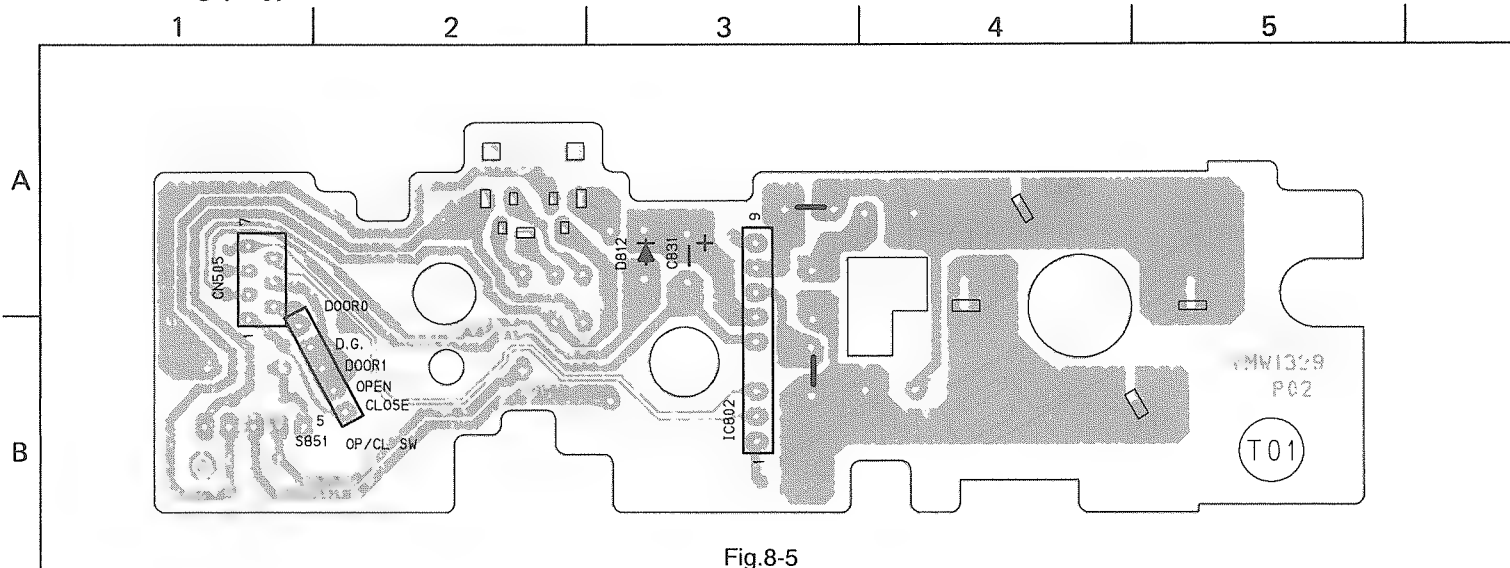


Fig.8-5

● CD loading (tray) motor board parts list

BLOCK NO. 05

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 831	QEK61CM-107ZN	E.CAPACITOR	100MF 20% 16V	
CN505	VMC0163-R07	CONNECTOR	MICOM/TRAY SW	
D 812	1SR35-100	SI DIODE		
IC802	BA6208A	IC		
S 851	ESS1200-002	SWITCH		

# 9 Exploded View of Enclosure Assembly

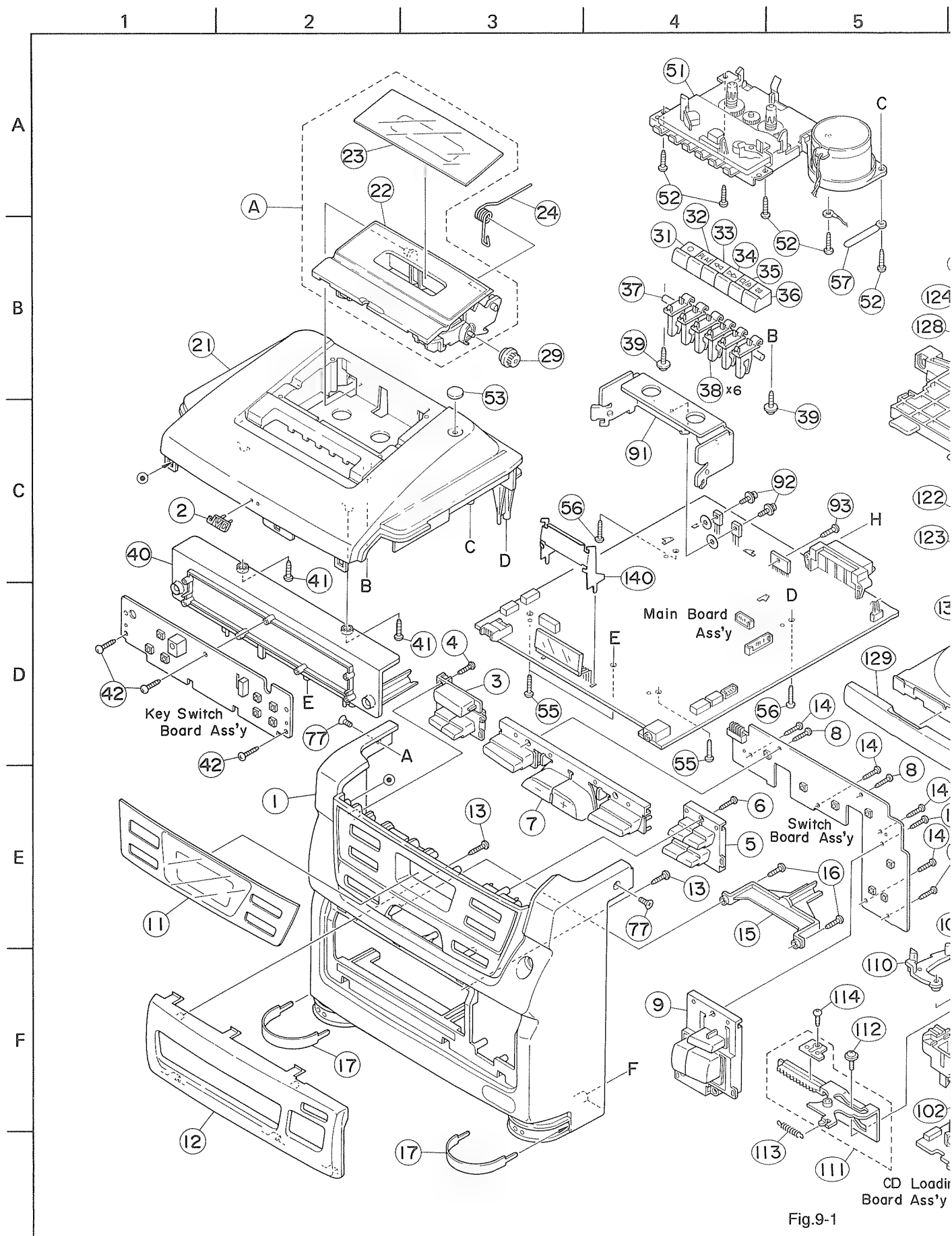


Fig.9-1

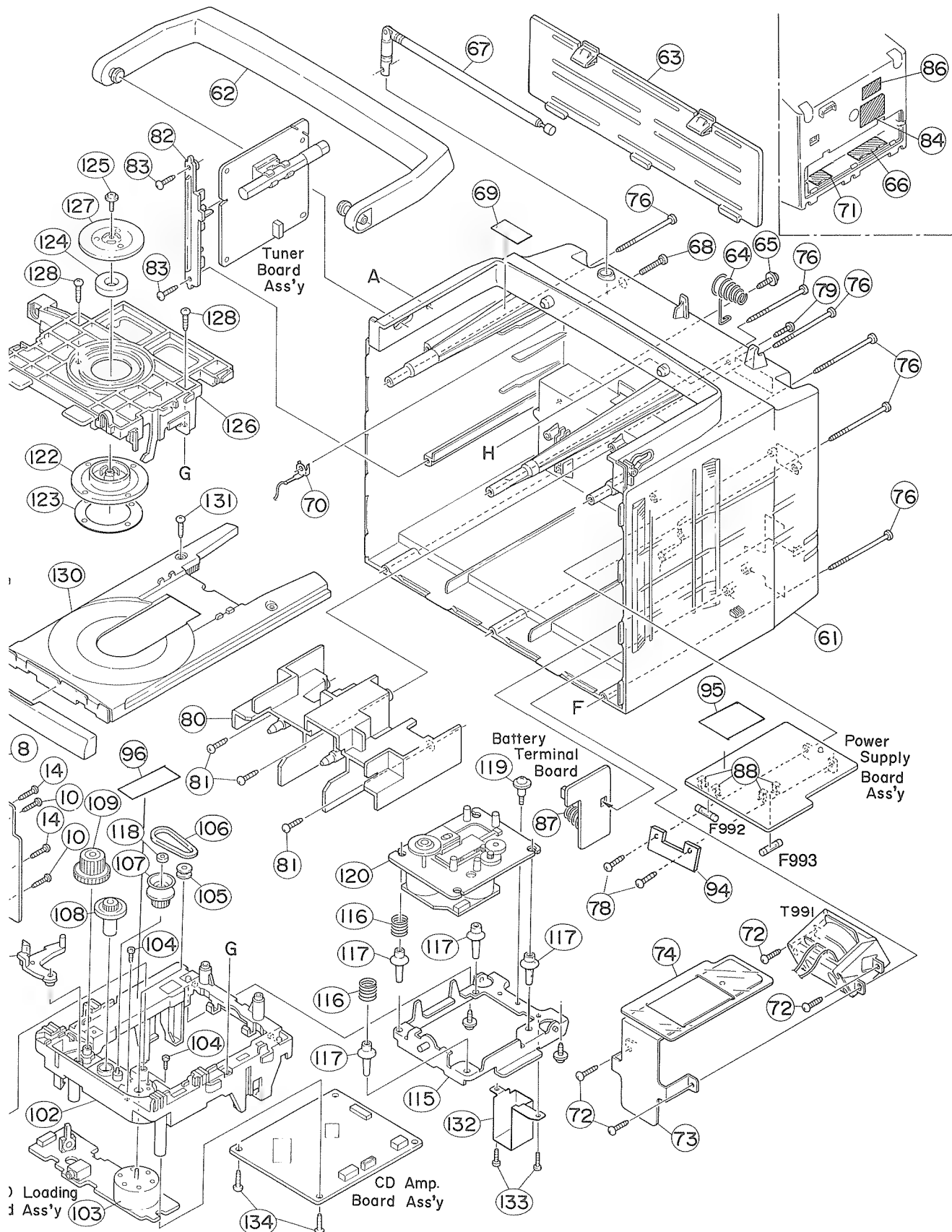
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## ● Enclosure assembly parts list

BLOCK NO. M1MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	ZCPRX103K-CB	C.DOOR ASS'Y	NO.22,23	1		
	1	VJG1384-002	FRONT CABINET		1		
	2	PQ45130-1-1	JVC MARK		1		
	3	VXP3771-001	PUSH BUTTON(A)	POWER	1		
	4	SBSF2610Z	SCREW	F.CAB+BUTTON(A)	1		
	5	VXP3772-001	PUSH BUTTON(B)	BAND SEARCH	1		
	6	SBSF2610Z	SCREW	F.CAB+BUTTON(B)	1		
	7	VXP3757-001	PUSH BUTTON(C)	VOLUME	1		
	8	SBSF2610Z	SCREW	F.CAB+BUTTON(C)	2		
	9	VXP3770-001	PUSH BUTTON(E)	CD PLAY STOP	1		
	10	SBSF2610Z	SCREW	F.CAB+BUTTON(E)	2		
	11	VJD3991-001	LCD LENS		1		
	12	VJD2468-002	FRONT COVER		1		
	13	SBSF2610Z	SCREW	F.CAB+F.COVER	2		
	14	SBSF2610Z	SCREW	F.CAB+SW PWB	4		
	15	VYH3916-001	HOLDER		1		
	16	SBSF3010Z	SCREW	F.CAB+HOLDER	2		
	17	VJD5483-002	FOOT PLATE		2		
	21	VJG1395-102	TOP COVER		1		
	22	VJT2365-001	CASSETTE DOOR		1		
	23	VJT4230-002	DOOR LENS		1		
	24	VKW5218-001	DOOR SPRING		1		
	29	VYH7366-001MM	GEAR		1		
	31	VXP2116-001	MECHA BUTTON	REC	1		
	32	VXP2116-002	MECHA BUTTON	PLAY	1		
	33	VXP2116-003	MECHA BUTTON	REW	1		
	34	VXP2116-004	MECHA BUTTON	FF	1		
	35	VXP2116-005	MECHA BUTTON	STOP/EJECT	1		
	36	VXP2116-006	MECHA BUTTON	PAUSE	1		
	37	VYH7877-002	SHAFT		1		
	38	VYH7883-002	BUTTON LEVER		6		
	39	E65923-001	TAPPING SCREW		2		
	40	VYH2316-001	CHASSIS		1		
	41	SBSF3010Z	SCREW	TOP+CHASSIS	2		
	42	SBSF3010Z	SCREW	CHASSIS+SW PWB	3		
	51	-----	CASSETTE MECHA		1		
	52	SBSF3010Z	SCREW	TOP+MECHA	5		
	53	VJD5458-004	PLATE	MOTOP AJAST	1		
	55	SBSF3010Z	SCREW	TOP+ MAIN PWB	3		
	56	SBSF3010Z	SCREW	CHASSIS+MAIN PW	2		
	57	VKZ4001-110	WIRE CLAMP		1		
	61	VJG1385-002	REAR CABINET		1		
	62	VJH2016-001	HANDLE		1		
	63	VJC2555-001	BATTERY COVER		1		
	64	VYH5657-002	BATTERY SPRING		1		
	65	E65923-004	TAPPING SCREW	BATT SPRING	1		
	66	VYH8075-001	PROTECTOR SHEET	FOR BATTERY	1		
△	67	FMJA3001-00A(D)	ROD ANT ASS'Y	JSC VJA3001-A(C	1		
	68	SDSP3016N	SCREW	FOR ANT	1		
	69	VYSA1R4-056	SPACER		1		
	70	VYH5012-005SS	TERMINAL LUG	FOR ANT	1		
	71	VYH8095-001	PROTECTOR SHEET	FOR BATTERY	1		
	72	SBSF3010Z	SCREW	TRANS	4		
	73	VYH3933-001	SHIELD		1		
	74	VMA4685-001	BARRIER		1		

BLOCK NO. M1MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
76	SDSF3065Z	SCREW	FRONT+REAR	6		
77	SSSF3010M	SCREW	FRONT+HANDLE	2		
78	SBSF3010Z	SCREW	REAR+AC SOKET	2		
79	SBSF3010Z	SCREW	SP TERMINAL	1		
80	VYH2303-001	CD SUPPORT	CD MECHA+REAR	1		
81	SBSF3010Z	SCREW	CD SUPPO+REAR	3		
82	VYH8050-001	TUNER HOLDER		1		
83	SBSF3014Z	SCREW	FOR T.HOLDER	2		
84	VYN7072-M009T	NAME PLATE		1		
86	E70891-001	CLASS 1 LABEL		1		
87	VYH5483-001	BATTERY SPRING		1		
88	VMZ0125-001Z	FUSE CLIP	FOR F992,F993	4		
91	VYH3919-001	HEAT SINK		1		
92	DPSP3010Z	SCREW	IC	2		
93	SBSF3010Z	SCREW	POWER TRANSISTA	1		
94	VYH8066-001	AC BRACKET		1		
95	VMA4695-001	SHIELD	FOR POWER SUPPL	1		
96	E406709-001	LASER CAUTION		1		
102	VYH1238-001	LODING BASE		1		
103	MMN-6F1LB8K	MOTOR		1		
104	SPSK2640Z	MINI SCREW		2		
105	E75984-221	MOTOR PULLEY		1		
106	E75950-002	BELT		1		
107	E75985-221SS	GEAR(1)		1		
108	E75986-221SS	GEAR(2)		1		
109	E75987-221SS	GEAR(3)		1		
110	E307162-331	LEVER		1		
111	E307252-331	CAM-PLATE		1		
112	E65923-003	TAPPING SCREW		3		
113	VYH7787-001	SPRING		1		
114	SBSF3008Z	SCREW		1		
115	E307179-332	E.BASE ASS'Y		1		
116	E406871-001	SPRING		2		
117	E406294-002	INSULATOR		4		
118	E60912-005SS	SPEED NUT		1		
119	E406293-001	SPECIAL SCREW		1		
120	-----	CD MECHA ASS'Y		1		
122	VYH3680-001	CLAMPER		1		
123	VYH7315-005	PAD		1		
124	E74897-002	MAGNET		1		
125	GBSF2606Z	SCREW	FOR CLAMPER	1		
126	VYH2302-001	CLAMPER BASE		1		
127	VYH3764-401	CLAMPER PLATE		1		
128	SBSF3010Z	SCREW	FOR CLAMPER BAS	2		
129	VJD3995-001	TRAY FITTING		1		
130	VYH1222-101	TRAY		1		
131	SBSF3010Z	SCREW	FOR TRAY STOPPE	1		
132	VMA4619-002	SHIELD CASE		1		
133	SDSR2606Z	SCREW	FOR SHIELD CASE	2		
134	SBSF3010Z	SCREW	FOR CD PWB	2		
140	VYH3911-001	LCD HOLDER		1		
F 992	QMF51E2-2R5J1	FUSE	2ND	1		
F 993	QMF51E2-2R5J1	FUSE	FOR DC	1		
T 991	VTP57J2-12B	POWER TRANS		1		

# ■ Speaker section

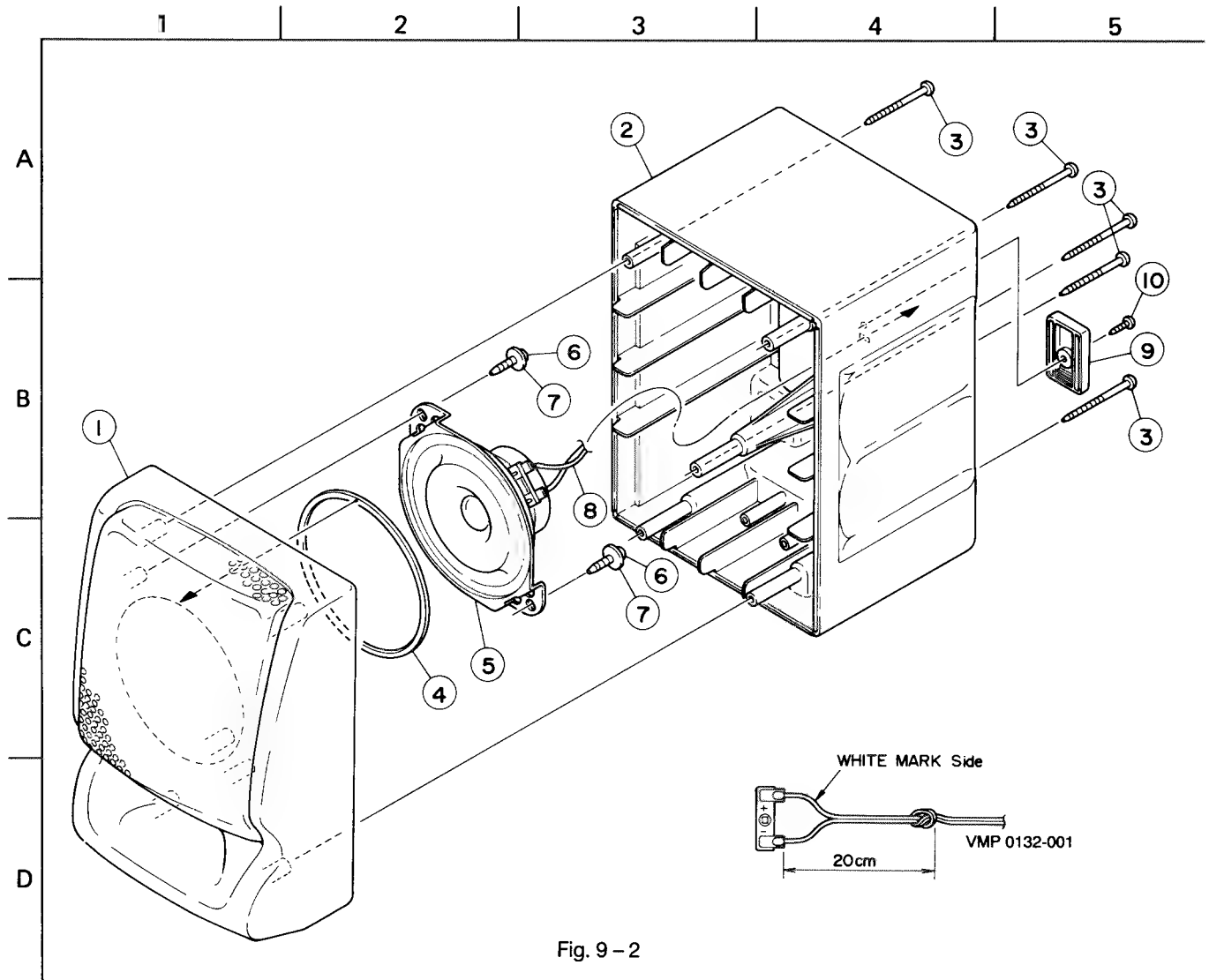


Fig. 9-2

## ● Speaker section parts list

BLOCK NO. M2MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
S	1	VJC2556-00D	SP FRONT ASSY	RIGHT SIDE	1		
		VJC2556-00C	SP FRONT ASSY	LEFT SIDE	1		
S	2	VJG1387-001	SP R.CABINET(L)	LEFT SIDE	1		
		VJG1388-001	SP.R.CABINET(R)	RIGHT SIDE	1		
S	3	SBSF3050Z	SCREW	FRONT+REAR	5		
S	4	VYSH201-013	SPACER	SP.F.CABNET	1		
S	5	VGS1001-020	SPEAKER	SP01	1		
S	6	SBSF3010Z	SCREW	SPEAKER	2		
S	7	VYH8069-001	WASHER	SPEAKER	2		
S	8	VMP0132-001	SPEAKER CORD		1		
S	9	VJD5470-001	CORD HOLDER		1		
S	10	SBSF3010Z	SCREW	CORD HOLDER	1		

10 Exploded View of Mechanism Assembly

■ Cassette mechanism section

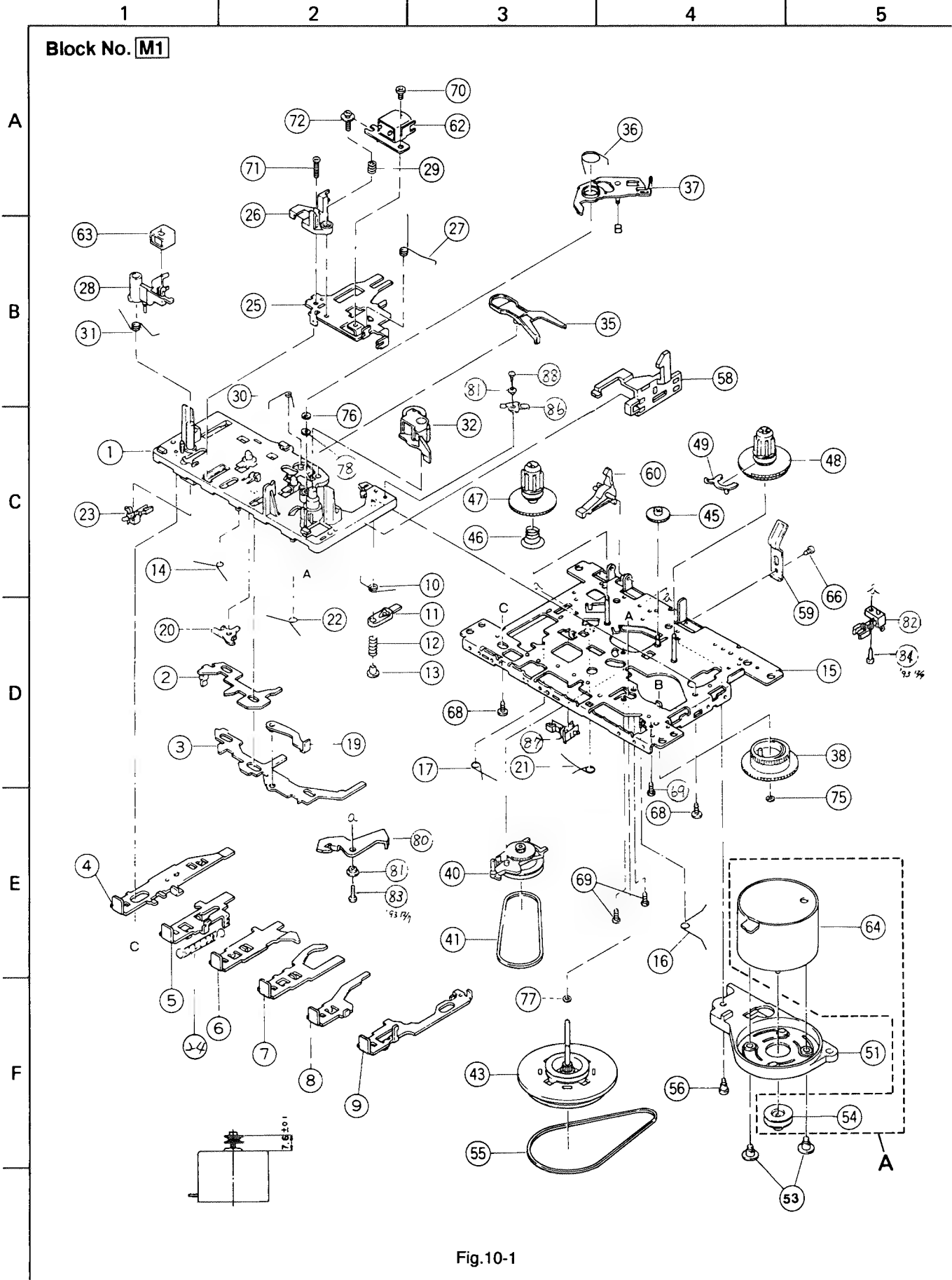


Fig.10-1

## ● Cassette mechanism parts list

BLOCK NO. M3MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A	1921123026T	DC MOTOR ASS'Y	NO.54,64	1		
1	192114316T	BASE ASS'Y		1		
2	19211409T	SWITCH ACTUATOR		1		
3	19211438T	PUSH B.ACTUATOR		1		
4	19211422T	BUTTON LEVER	REC.	1		
5	19211484T	BUTTON LEVER	PLAY	1		
6	19211424T	BUTTON LEVER	REW	1		
7	19211425T	BUTTON LEVER	FF	1		
8	19211466T	BUTTON LEVER	STOP	1		
9	19211461T	BUTTON LEVER	PAUSE	1		
10	19211413T	P CONT. SPRING		1		
11	19211455T	PAUSE LEVER (E)		1		
12	19211412T	SPRING		1		
13	19211411T	PAUSE STOPPER		1		
14	19211414T	TORSION SPRING		1		
15	192101501ZT	CHASSIS ASS'Y		1		
16	19211416T	TORSION SPRING		1		
17	19211417T	TORSION SPRING		1		
19	19211464T	E KICK LEVER		1		
20	19211420T	STOPPER		1		
21	19211421T	TORSION SPRING		1		
22	19211415T	TORSION SPRING		1		
23	MSW-1541T	LEAF SWITCH	MSW-1541T	1		
24	18210150T	PLAY BUTTON LEV		1		
25	19210313T	HEAD PANEL		1		
26	19210304AT	HEAD BASE		1		
27	19210309T	PANEL P SPRING		1		
28	19210305T	MAGNET HEAD ARM		1		
29	18210307T	AZIMUTH SPRING		1		
30	19211418T	TORSION SPRING		1		
31	19210310T	MG ARM SPRING		1		
32	192104309T	P.ROLL. ARM ASY		1		
35	19212604TT	SENSING LEVER		1		
36	19212605T	TORSION SPRING		1		
37	192126502ZT	GEAR PLATE ASSY		1		
38	19212602T	CAM GEAR		1		
40	192107308T	RF CLUTCH ASS'Y		1		
41	18210711T	RF BELT		1		
43	192109303ZT	FLYWHEEL ASS'Y		1		
45	18211070T	F.FORWARD GEAR		1		
46	18211099T	B.T.SPRING		1		
47	192105304T	S. REEL ASS'Y		1		
48	192105303T	T. REEL ASS'Y		1		
49	19210506T	SENSOR		1		
51	19211208T	MOTOR BRACKET		1		
53	19211202T	COLLAR SCREW		2		
54	19211201T	MOTOR PULLEY		1		
55	19210924T	MAIN BELT		1		
56	19211203T	MB SCREW		1		
58	19211301T	EJ. SLIDE LEVER		1		
59	18291001T	PACK SPRING		1		
60	18211069T	REC.SAF.LEVER		1		
62	MS15R-AA2N1	R/P HEAD	MS15R-AA2N1	1		
63	PHK-MSI-6A	E HEAD	PH-K380-MS16A	1		

M	3	M	M				
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[illegible]

# CD mechanism section

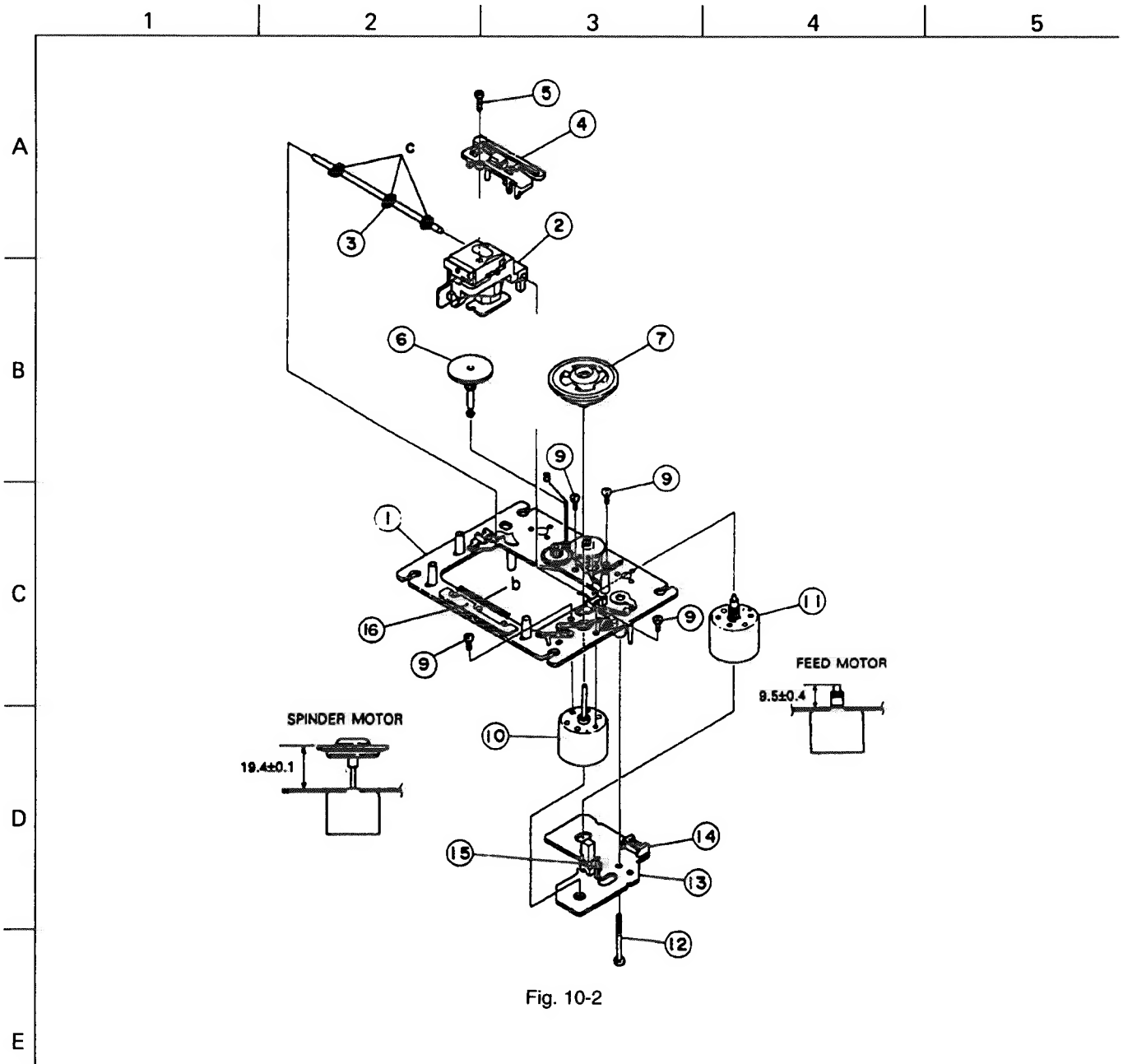


Fig. 10-2

## CD mechanism section parts list

BLOCK NO. **M4MM**

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	EPB-002A	MECHA BASE ASSY		1		
	2	OPTIMA-6S	OPTICAL PICK-UP		1		
	3	E406777-001	GUIDE SHAFT		1		
	4	E307746-001	CD RACK		1		
	5	SDSF2006Z	SCREW		1		
	6	EPB-003A	MECHA GEAR		1		
	7	E75807-301	TURN TABLE		1		
	9	SDSP2003N	SCREW		4		
	10	E406783-001	DC MOTOR		1		
	11	E406784-001SA	DC MOTOR ASSY		1		
	12	E75832-001	SPECIAL SCREW		1		
	13	EMW10190-001	PRINTED BOARD		1		
	14	EMV5109-006B	CONN. TERMINAL		1		
	15	ESB1100-005	LEAF SWITCH		1		
	16	E407212-001	DAMPER		1		

11 Illustration of Packing and Parts List

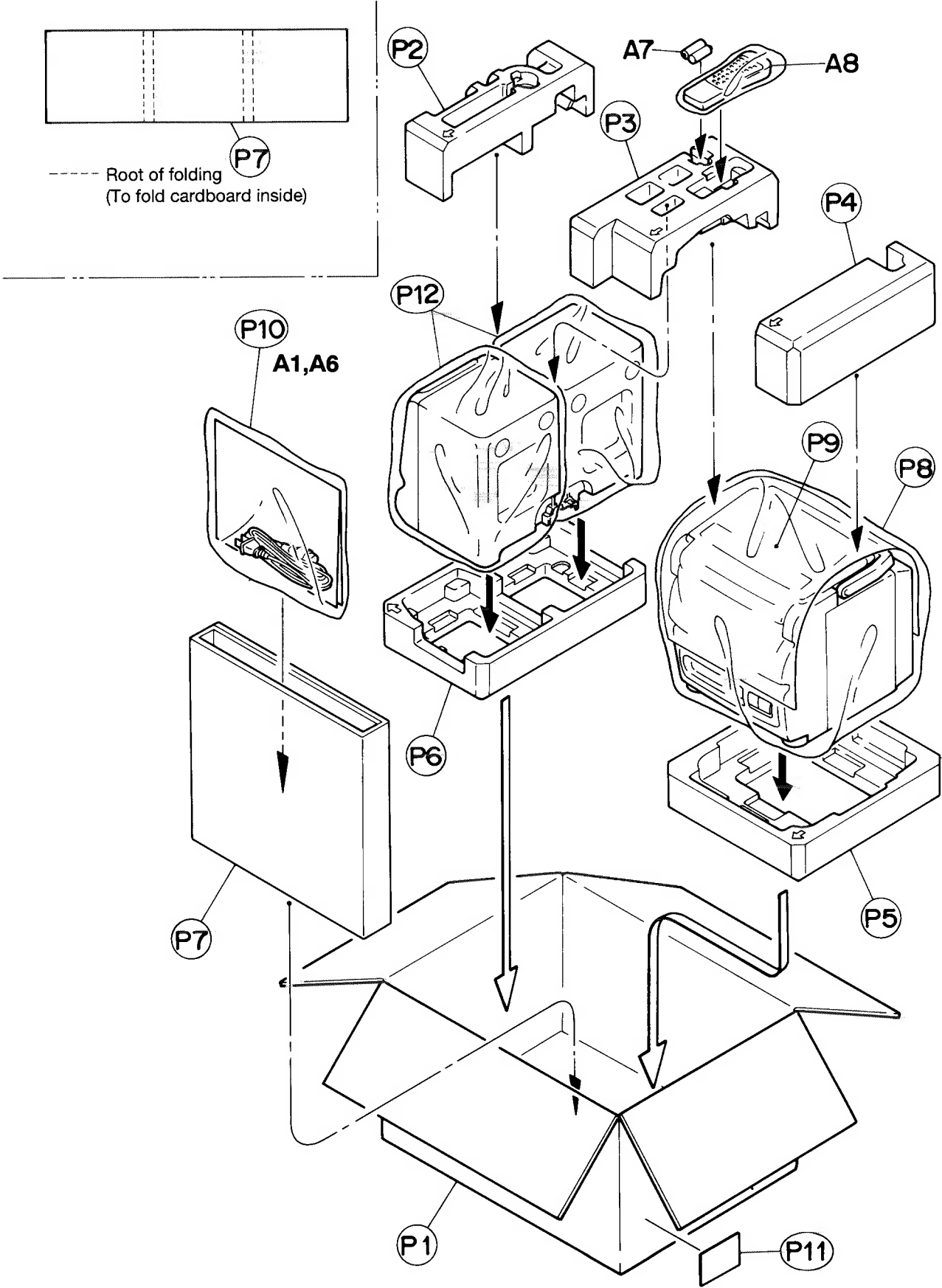


Fig. 11-1



## ● Packing parts list

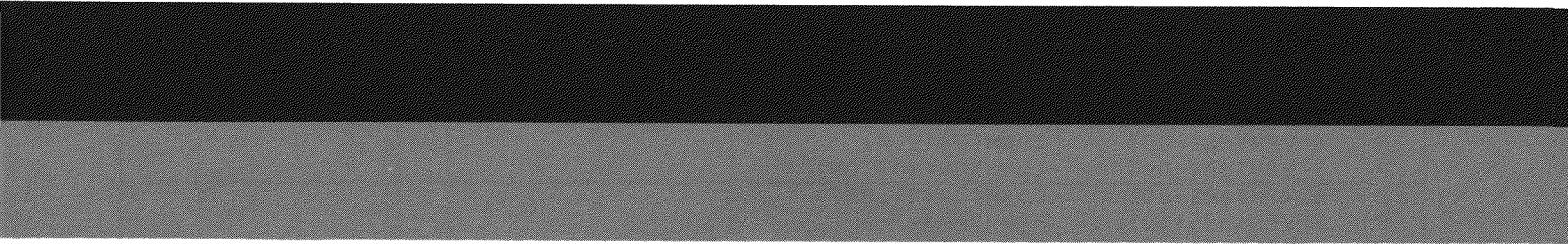
BLOCK NO. M5MM [ ] [ ] [ ]

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
P	1	VPC7072-M001	CARTON		1		
P	2	VPH1684-001	CUSHION(U.L)		1		
P	3	VPH1684-002	CUSHION(U.C)		1		
P	4	VPH1684-003	CUSHION(U.R)		1		
P	5	VPH1684-004	CUSHION(BOTTOM)		1		
P	6	VPH1691-001	CUSHION(SP.BOT)		1		
P	7	VPK4325-001	PAD		1		
P	8	VPE3026-005	POLY BAG	SET	1		
P	9	VPK4002-025	SHEET	SET	1		
P	10	VPE3005-007	POLY BAG	INST	1		
P	11	-----	CARTON LABEL	046838061295	1		
P	12	VPE3026-006	POLY BAG	SPEAKER	2		

## ● Accessories

BLOCK NO. M6MM [ ] [ ] [ ]

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
△	A	1	VNN7071-261M	INSTRUCTIONS	1		
			VNN7071-271M	INSTRUCTIONS	1		
△	A	6	QMP39F0-183E	POWER CORD	1		
A	7	R6PRPA-2STSA	BATTERY		2		
A	8	VGR0042-301	REMO-CON UNIT	RM-RX1060	1		



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